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*Precision*

# SHOOTING

*a magazine for shooters by shooters*



# PRECISION SHOOTING

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## Cover Photo

Glenn Price at Fassett in 1983. He will be missed by his many friends in the East (and West).

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## YE OLDE EDITORIAL

As I write this, it's a few days before Christmas, and the first real cold snap of the year is settling into the Northeast. The Jets and Giants have failed to make the playoffs again, and there isn't a horse capable of getting out of his own way left to run the winter days on the New York racing circuit. Devil's Bay looks like a shoo-in for the '84 Kentucky Derby, if he stays healthy, and beyond that, and Washington repeating in the Super Bowl . . . so much for fearless predictions for 1984.

If you miss Rick Hornbeck's writing for the next few months, and many of us will, it's not that he has suddenly gotten lazy . . . Rick is having a bit of a health problem, which requires a surgeon to remove a few items that he believes Rick would be better off without, and Rick will be taking a bit of a Sabbatical. We wish the Colonel well, and hope for his prompt return, because I sure ain't about to study things for hours on end that people send us, like he enjoys doing. Wish you all the best, buddy!

Had a phone conversation with Rick a few days ago . . . he asked me if, when cleaning my barrel between relays, I "dunked" my brush into the bore cleaner I was using (which he just presumed — and correctly so . . . was Marksman's Choice). I replied that I did . . . and got a brief three minute lecture that made a lot of sense. The bore brush is, after a series of passes down your barrel, loaded with copper and powder fouling (at least it should be, if your bore cleaner is accomplishing anything). Your bore cleaner is made to . . . well, fight with these items. You put the dirty bore brush into the Marksman's bottle, and some of the junk comes off in the bore cleaner. For the next 30 minutes or so, until you come back for another dunk session, your bore cleaner beats up on the junk you put into the bottle via your dirty brush. As Rick says it, you are contaminating your bore cleaner to the point that, when the bottle is half-full, the remaining stuff is so exhausted from fighting with the junk that you've thrown in with it, that you might as well throw it out; it's lost it pizzazz. Only problem with Marksman's is that it attacks plastic, so you can't use most of the plastic squeeze bottles that we are accustomed to using with lesser-powered bore cleaners. Looks like the eye dropper route for the Editor, until he finds a better way of putting Marksman's on his bore brush . . . since Rick's remarks made a lot of sense to me.

Speaking of bore brushes, you'll see

new ones advertised in Wally Hart's ad in this issue. Wally Hart is another one like Rick Hornbeck; he experiments . . . and experiments some more. He tells me that with his new bore brushes, he took a rifled barrel, put a clean piece of white paper fore and aft, made 200 to 300 passes apiece, with ten different brushes, and never did find a loose bristle on the paper. Sounds pretty good to me . . . and I'll bet that little stinker of a barrel was fairly clean when he got through testing! That statement I would take with a grain of salt from some sources . . . but not Wally Hart.

If you REALLY READ this nifty little publication, you noted that on page two with this issue, we now have five columnist gunsmiths (not to be confused with communist gunsmiths). It took a bit of wooing but we persuaded HAROLD BROUGHTON to join the crew on the editorial staff. Seriously, Harold Broughton does the smithing for some of the top level NBRSA shooters, guys like Jef Fowler, and I think now that we've got a heck of a fine assembly of gunsmiths on board. I think Harold expressed pretty well the general mellow feeling that prevails in the benchrest sport today, when I called him and asked him to join the staff. His reply was to the effect . . . "heck, I'm not much of a writer . . . but if it would help you out . . . and if you think I can contribute something of value . . . I'll be more than happy to do so". I kind of like that . . . he didn't ask what we could do for him . . . he said that if

HE could do anything for US . . . he would.

Last issue I remarked about how Jef Fowler had prevailed upon Ed Shilen to make six groove match grade barrels exclusively for him. Here's another one. Harold Broughton has prevailed on Ed Shilen to make FOUR groove match grade stainless steel barrels exclusively for him. In a lengthy conversation with Harold over the weekend, he was enthusiastic as heck about what he had seen of them to date, and if you like the four groove idea, look up Harold Broughton on page No. 2 of this issue, and drop him a line. Tell him Groucho sent you.

Makes me sort of worry about Ed Shilen. Ed is probably about in my weight range (sort of light). I think about two big guys, like Fowler and Broughton "prevailing on Ed Shilen to manufacture a specific barrel, exclusively for me . . .". Reminds me of the time, at the '82 Super Shoot, when George Kelbly and Alan Hall decided that I didn't know how to operate a Culver measure properly (or at least not to their satisfaction), and took it on themselves to SIT THERE UNTIL I GOT IT RIGHT. Since they each outweigh me by a rather substantial margin . . . I promptly "got it right". The power of intimidation!

Ed . . . are you all right?? Say something . . . anything!! I'm concerned about all these big guys "prevailing on Ed Shilen . . .".

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# SHOOTING WHILE THE CROSSHAIRS DANCE

To: Twenty of So Halfway-Successful Shooters

Re: March Issue of P.S.

Dear Shooters,

We are having an unexpected degree of success with our little venture of writing to successful shooters and gunsmiths and asking for replies to practical problems on both equipment and shooting. In the October issue, we had the "40X Versus Custom Action" article, with five replies out of eight gunsmith inquiries, and while there have been subsequently three letters damning the editor to a dark unswept corner of Hell as a result of the article . . . it sure as heck has stirred up both interest and discussion. We then went to "6PPC Case Problems", and with 13 replies out of 17 inquiries, we had to run the replies in both December and January because there wasn't room in one issue.

I guess I ought to say that this makes me feel pretty good. Many of the shooters and gunsmiths ARE apparently willing to share their opinions, and their knowledge, with no remuneration, but only the satisfaction of "contributing something" to the sport. I . . . more than you know . . . appreciate that, and hope our readership benefits from your knowledge and experience.

We've had one issue on gunsmithing, and one on loading. I'd like to go to a practical shooting problem for the March issue, and hope you'll give me some input for what hopefully will be another good article. We would greatly appreciate your comments, which I'll polish to the point where you look like a real Rhodes Scholar! Okay, here's the question . . .

### SITUATION

It's the warmup match. You sit down at the bench, and start peering through the scope. It's a day of light, but shifting wind direction, 5 m.p.h., up to 10 m.p.h. tops. The sun is shining brightly, and there most certainly is mirage present. You look at the sighter target, watching the mirage off the bottom of the target frame, and it's flowing right to left, with the crosshairs dancing in the mothball. You (wisely) refrain from idle chatter with the shooter next to you, and just study it, for about three minutes before the "commence fire" order. Within that three minute period, there are three distinct conditions: (1) right to left, about 5 m.p.h. (2) mirage is boiling (no wind), and the heat waves are going straight up, above the record target, (3) complete reverse, albeit still at 5 m.p.h., mirage now left to right. Any time you look at the mothball, through your scope, there is "flicker", and the crosshairs are dancing around, and indeed going from border to border of the mothball. There is not enough wind, at the given time, to wipe out the mirage, and give you a clear sight picture, without crosshair flicker.

Okay, that's the condition . . . and it looks like it will hang around all day. How are you going to set up your strategy for the day? How are you gonna shoot it? As said earlier, thanks for any help and assistance that you can give.

Best regards

*Dave Brennan*



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## MYLES HOLLISTER

Knowing me, I wouldn't be to the bench in time to study the mirage, wind, and other things before I had to start shooting.

But anyway, if I had to shoot a condition with a 5 m.p.h. to 10 m.p.h. top wind speed with a lot of mirage boiling straight up, occasionally completely reversing also, here is my strategy.

First off, I would try to find out which condition is predominant; right to left or left to right and which one of these was holding the longest. When I found this out I would try to shoot that one condition if possible. I would try a few on the sighter and if the shots went together real well, I might try the record and shoot them quickly before things changed.

Another thing I might try is to shoot some on the sighter just at the moment of a reverse in the lull before the complete reverse of wind and mirage.

One has to be quick on the draw with this method of shooting, but sometimes it works quite well when conditions are going from right to left and vice versa very quickly. If this worked, I might go to the record target also.

One condition that I have no faith in is when there is no wind at all and the mirage is just boiling straight up. This can be a nightmare to me. I stay away from this sort of thing as much as possible. I would rather shoot in a wind anytime which will at least give me an indication of the direction of the mirage.

If I had to shoot and there was always a flicker of mirage, I would always try to

catch it going in the same direction and the wind flags showing the same intensity; never shooting when the flags are completely still.

It is an awful temptation to pull the trigger when those wind flags go dead, but when old Sol is out, it can certainly open up one's groups.

With a 5 m.p.h. wind, I believe one will shoot better groups shooting a complete reverse 180° than he or she can with the flags dead and a good boiling straight up mirage holding dead on.

If one gets short of time, and who doesn't, and you've got three shots in one hole and a complete reverse, check it out on the sighter — see how much you need to hold — hurry up and get them off before it changes again or time runs out like it has for me before. Amen!

I've got a stop watch now — it helps like hell!

Sometimes in this type of shooting one gets thoroughly confused but with some practice and luck, you'll be surprised how well one can shoot respectable groups.

The same things don't always work every time. We have to be flexible and try and find out what works on that certain day for us on that particular range.

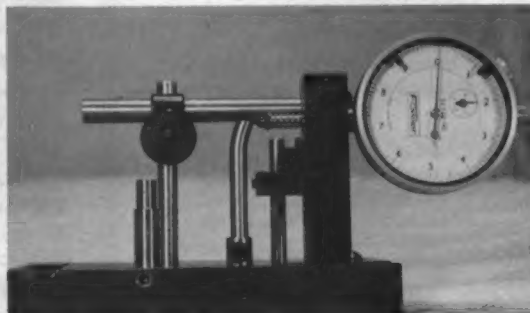
The one thing that I think helps me most is the fact that the only person I have to beat is **myself**. When conditions are tricky or anytime.

We also don't know how good we are doing unless we get out there and rub elbows with the other shooters. That's where the fun and enjoyment comes.

*Continued on next page*

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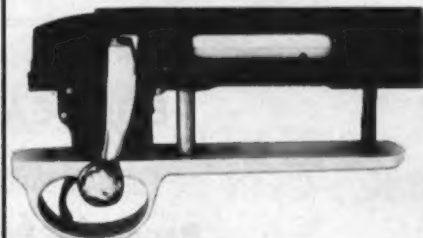


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*Continued*

### ALLIE EUBER

In reply to your letter, which requested a reply on match strategy under your given situation . . . frankly I wish you had given a different given situation. The hypothetical case you spelled out raises havoc with me! The situation of mirage and very light winds creating a dancing sight picture is not exactly my idea of a fun afternoon with friends! In fact, it has made for many uncomfortable afternoons in my life. My main reason for this depressed feeling is the fact that it is harder to determine, while firing a shot, if you had a shooter error or a holding error. In other words, I just don't know for sure, if that shot went to a spot other than where I wanted it to go, if I had a poor let off, or the conditions of mirage made the target move at my moment of let off. To

make it even more of a stinker of a situation, it's a lot harder to see bullet holes in the paper under the circumstances you describe.

As you can gather, I wish to heck I didn't have to shoot under your set of described conditions. I'd much rather open a nice cold beer, and tell hunting stories with my friends. I suspect that every experienced shooter has conditions that he likes to shoot in . . . and regrettably you have picked a set of conditions to shoot in that I hate . . . and have difficulty with, as many match reports will show. This is the sort of condition that shooters like Doc Maretzo and Seely Masker love . . . they do extremely well when conditions are as you described. If you were able to flat out tell me, with an air of assurance that these conditions were going to be "what's happening" at Kelbly's in May, then I would not have to do much agonizing to decide to stay home and watch the Orwell Memorial Day Parade!

To answer your question on what my strategy would be . . . I'd start with one "Our Father", followed by two "Hail Marys", and then if it were a serious match, I'd settle down to some serious prayer.

Well, to get down to it. I'd take the three conditions that you mentioned and, on the sighter, shoot a three-shot group in each condition, using no hold off at all. I'd memorize the point of impact for each condition for future reference in relation to the ten ring, in case I were to become short on time in a record match, and had to hold off to finish a group.

When I had finished the three three-shot groups, I would select the condition that gave me the smallest group size on the sighter for three shots.

When that condition returned, I would start my five-shot group upstairs, and hope to get off five shots quickly, before conditions changed. Hopefully, all conditions have been holding for at least 30 seconds before changing . . . which is about all I need to get five shots off in . . . but it rarely happens. If the warm-up group was acceptable, I'd start my first record target in the same conditions.

However, if I had time left, before the "cease fire", after firing my warm-up group, I'd go back down to the sighter, and do more testing of conditions . . . trying to identify when a change of conditions is occurring, and where my shot will go. When I can read the wind and mirage and predict where the shot will go, I start to get confidence that conditions are readable, and selection of the best condition is easier.

If the conditions are switching every ten seconds, then I'd choose the condition that appears to be the most honest and readable, and can be identified clearly as to when it is stable. I've always been a sucker for a calm condition, and would certainly at least try shooting the boil (on my sighter, naturally), since at least the boil is pretty easy to identify. I'd use the wind flags to show the calm, then I'd try to dope the mirage when it boils straight up. If the vertical dispersion isn't too severe, I'd stay with it all day . . . or at least until I had shot two half-inch groups, which would indicate to me that I had chosen the wrong condition to shoot in . . . again.

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## SEELY MASKER

How did you ever come up with a set of perfect conditions like that? I seldom find them that good!

Now, if I tell you all my secrets, you'll only use them to beat me at the next match! Well, if anything I say helps, then good luck.

I try never to shoot in a boil; I invariably get vertical dispersion everytime I try it.

I would certainly elect to shoot the mirage, either left to right, or right to left. If I elect to go with left to right on my record target, and find myself running short on time, with a right to left now running, then I have to go back to the sighter, and see how much point of impact change this different condition is going to cause. Then, if time is now very short and the reverse condition is still running, then I have to go back "upstairs" and hold off that amount. I don't fire a lot of sighters as some shooters do . . . . probably there have been times if I had done so, I would have been better off. Yes, I watch the flags too, if there are any that I think I can trust. The flags should agree with the mirage, but SOMETIMES THEY DON'T!

I have at times shot well in mirage, as in last year's ten shot group record, but I'm always surprised and amazed when I do. I had to go to the sighter before I fired the last shot in that record group; the sighter indicated a half-inch holdoff to the right was needed. With my heart in my mouth, and running out of time, that's where I held, and the shot went right into the group!

## Left The Range

GLENN PRICE died on December 17, age 61, at Torrance, California, the victim of a lengthy struggle with leukemia. A popular and competent shooter, Glenn managed to make most of the South-western region matches throughout the year, and in his summer "Eastern trip", usually was a regular at many IBS matches as well. He set IBS records in a few of these matches, and was often asked to serve as referee because Glenn "knew the rule book", and could be depended on to do a fair and competent job. He is survived by his wife, Donalee, another capable and popular benchrest shooter and record holder. Glenn will be missed by many shooters and friends in both organizations.

— WE ARE DIMINISHED —

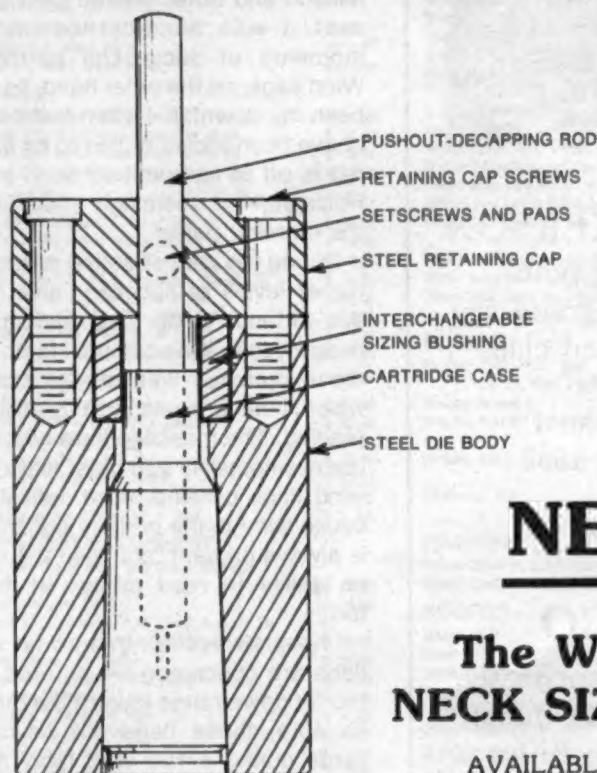
Other times I have fired some real small groups with no sighters . . . . just picked a condition that was hanging around for a while, and let 'em go! One word of caution . . . . if you shoot one that way, no sighters, and it looks as if it might be a new record, better put one shot down on your sighter. The rule book doesn't say this . . . . it should.

Dave, in the questions that you presented, you only said left to right, and right to left. The tough ones are the diagonals, where the breeze is coming from two, four, eight, or ten o'clock. These are the ones that give me, as well

as just about everyone else, problems. The diagonals will not only cause horizontal dispersion, but vertical as well . . . . I.E., a right to left from four o'clock will cause a shot out at ten o'clock on your target. How about a six o'clock or a twelve o'clock wind. A six o'clock tail wind will usually cause a high shot, and a twelve o'clock head wind usually causes a low shot. Note that I said "usually", Mother Nature has no set rules, and when she lets you win, be grateful. It was your day, and The Man Upstairs has smiled on you today.

*Continued on next page*

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## SHOOTING WHILE THE CROSSHAIRS DANCE

*Continued*

### RICK HORNBECK

As I review your "Situation" it becomes very apparent that some very fine groups are going to be fired this day, with some possible new records for groups or aggregates. Assuming everyone present can use the wind flag indications with higher levels of proficiency, it looks like a mirage game to me. My personal successful performance has always centered around mirage. As I came into the benchrest game, I found myself in the Mid-west Region of NBRSA and under the guidance of some very fine competitors, Larry Engelbrecht, the late Henry Barton, Walt Berger, Red Cornelison and other greats, past and present, I was hand-carried into some moments of successful performance. Wind flags, on the other hand, have often been my downfall. I often feel as though I have been fooled or lied to by flags. My hat is off to competitors such as Myles Hollister who seemingly read flags like the morning paper.

During the past shooting season some higher levels of success came my way due to much better flag reading than in recent years. An additional factor during those matches was mirage conditions which I have some mild proficiency in reading. The message here which I offer the newcomer is you must learn to read wind flags or other wind indicators because wind is the primary condition that is always present, and also the need for an ability to read mirage in its many forms.

I have always felt that so far as wind flags are concerned we all tend to look too far down range toward the target. To be sure, those flags out beyond fifty yards during a 100 yard relay must be given some attention. But just miss minor wind change at fifteen to twenty five yards out and there goes the ole ball game. At most matches there are always a wide selection of flags to use down range but I often wish there were some up closer to the bench. My reasoning is that we can expect that most rifles kiss the bullet goodbye in some level of unstable flight for some short distance. In any state of unstable flight a bullet has the coefficient of an empty beer can and all the wind drift charts go out the window. When we really throw a bullet out of the group I suspect it got off to an awful start and that error is multiplied all the way to the target.

The "strategy" I try to put into use under these conditions you have outlined with often limited success is to first of all, determine the right or left flow of wind that last the longest. Second, assure myself that mirage is always going in the same direction as the wind. Due to topographics, they often do not. This is quite common here in the east, while out west mirage usually tends to go in the same direction as the wind more often than not, or so it seems to me. Now the only remaining problem is to assure both wind velocity indications and mirage flow rates are the same for each shot!

I'm not a great "check on the sighter" shooter which could be one of my major shortcomings. Sometimes it pays off, but often I'm too slow getting back up on the record and have a new condition. Some of our very best competitors keep the powder and bullet manufacturer happy as clams by shooting groups all over the sighter and it really pays off for them. Seems to me the first thing important here is to have a memory like an elephant to use all the information picked up down there. I have trouble remembering what condition I started in! I often shoot next to Seely Masker and the likes of Ferris Pindell and that pair, I tell you for sure, would put an elephant to shame.

Your dancing crosshairs all over the mothball gives me some hope of maybe just shooting a group or two that will blow the pants off Seely. If the wind flags tend to repeat quite often, there is hope. As the crosshair does its dance I'll look for a repeating pattern and often there is. For example, I've picked a left to right wind flag condition that seems to come along quite often and the crosshairs tend to, during the same wind condition, push to the left and hesitate for a few seconds at nine o'clock on the ten ring. I'll let off a shot. If this condition is valid and I can do it the right number of times, Seely is in trouble. This, for me, is the best possible condition for a reasonable group. My primary shortcoming under this condition is that I don't keep up with the wind flags in an effective manner and when a shot goes out of the group usually I find a flag would have told me to hold up things. I'm aware that some mighty fine shooters out west can use this procedure with a high level of proficiency and I've been beat by everyone of them!

I'd guess that the above has given all those top shooters who beat me time and again the input on what I'm doing wrong. I hope they all answer your request for input on this subject and maybe I'll learn enough to give them a better run for their money!

## RON HOEHN

Dear Dave,

Very interesting set of conditions you have chosen to question shooters on. The conditions you have set up are so typical of matches in this part of the country (Missouri), that it seems that you must have lived around here sometime in the past. Back to the question, but first I will make a few assumptions that may or may not be true.

1. The rifle you are going to shoot is capable of shooting under .200" on an ideal day.
2. You are using the right load and bullets that you know shoot good (not a new lot of powder or different bullets).
3. You have some wind flags between you and the target that you are familiar with. (I use 3 to 5 at 100 yds. and at least 5 at 200 yds.).
4. You came to the match to do your best and have fun, not just have fun. (There is a difference).

Before we were sitting at the bench watching conditions go from right to left, boil, and left to right and back again, I would have changed parallax back to 100 yds., brought dot down to approximately "0" at 100 yds., and installed scope shade to keep barrel heat away from line of sight to keep from interfering with mirage from muzzle to 100 yds.

On "commence fire" command, I would fire first shot at "S" on sighter target to "0" rifle, 2nd shot fired at other "S" to check "0" (I like to place group between 10 ring and 9 ring at 6 o'clock in "dead" conditions). I will start to shoot at sighter bull to get a "feel" for conditions. Some people say I use too many flags and they couldn't keep track of them all, well I can't always either, but if you don't have them out there, you don't know which one is going to help (or hurt) you on any given day. I will try and see on sighter bull if the flags are telling the "truth" or the mirage is the thing to watch. I will shoot all the extremes I can find on the sighter and try to remember what conditions were like on each shot.

When I go to the record (if its still the W.U.), I will hold dead on and try to guess where the bullet will print (I am not as interested in a small group as I am in finding out exactly where the condition is going to push the bullet). Again, I will try to get extremes in both directions and I will not limit my number of shots to 5. (You can shoot as many as you want to as long as it is at least 5). I might shoot as many as 15 or so.

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MTM Casquard 50 Cartridge Boxes	\$ 2.58
MTM A 760 Shooters Accessory Box	\$ 20.80
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Jones Decapping Tool - less mandrel \$18.00	Mandrel \$ 6.00
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## Report On "The Benchrest Book"

In February of 1983, the editor shipped off to Stackpole Books, in Harrisburg, Pennsylvania the manuscript for a proposed new book, dealing exclusively with the subject of extreme rifle accuracy. The book, while dealing primarily with the subject of benchrest shooting, which is surely the ultimate in this field, nonetheless also touched on other related fields, where the practitioners also seek extreme accuracy. The list of contents of the book manuscript is as follows:

### SECTION ONE: BENCHREST

#### HUNTER CLASS

- The 6mm in Hunter Class ..... Francis Broussard
- 6mm Versus .308 in Hunter Class ..... Marcy Lyons
- Hunter Class — The Infancy and the Adolescence ..... Bob Pease

#### THE HEAVY BENCH RIFLE

- The Mechanical Rest ..... Bob Adamowicz
- The Heavy Benchrest Rifle ..... Al Angerman
- The Unlimited Rifle ..... Rick Hornbeck

#### SHOOTING BENCHREST

- Coping with Conditions ..... Gary Anderson
- The Fundamentals of Small Groups ..... Walt Berger
- The Glory Seekers ..... Lester Bruno
- Match Strategy ..... Allie Euber
- Good Mental Attitude ..... Myles Hollister
- Good Groups, My Way ..... Ed Watson

#### LOADING FOR BENCHREST

- Scanning for Accuracy ..... Lee Euber
- Loading for Accuracy ..... Geza Nagy
- Working Up a Load ..... John Ventriglia
- Selection and Preparation of Cases ..... John Ventriglia
- Loading for Benchrest ..... Ed Shilen

#### THE EQUIPMENT FOR BENCHREST

- The 1/8 Minute Rifle ..... Jim Borden
- History of Fiberglass Stocks ..... Chet Brown
- Paint ..... Pete Callan
- Making Benchrest Quality Bullets ..... Bob Cauterucio
- Sleeving Actions ..... Alvin Davidson
- Stocking Rifles ..... Howard Dietz
- Barrel Inclusions ..... Don Gentener & John Murza
- Making the 1/8 Minute Rifle ..... Allan Hall
- Chambering a Barrel ..... Dale Hutcherson
- History of Hart Actions ..... Tony Margelewicz
- The Weber Actions ..... George Fullmer
- Block Bedding ..... Seely Masker
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- Making a Custom Action ..... Jimmy Meyer
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- Benchrest Optics ..... Wally Siebert
- Fiberglass Stocks ..... Lee Six
- Heavy 6mm Bullet Experiments ..... Gene Harwood

#### BENCHREST PEOPLE

- Benchrest Champions ..... Al Angerman
- Letters from Ted Boughton ..... Dave Brennan
- Floyd Butler Story ..... Charlie Fountaine
- The Dr. Sam Nadler Story ..... Don Geraci
- Ferris Pindell ..... Editor's Interview
- Recollections of an Old Timer ..... Ed Phillips

## BENCHREST CARTRIDGES

- Benchrest Wildcats ..... Larry Baggett
- The Waldog ..... Jon Leu

## BENCHREST, GENERAL

- Troublesome Cartridges..... George Fullmer
- The Start of Modern Accuracy ..... George Fullmer
- Old Gunmakers Corner ..... George Fullmer
- Advanced Case Forming ..... George Fullmer
- Early Equipment Memories ..... Larry Engelbrecht
- Memories of the Supershoot ..... Skip Gordon
- How to Run a Benchrest Match ..... Wally Hart
- Memories of 1981 ..... Glenn Newick
- Panic Time ..... Bob Pease
- Fundamentals of Accuracy ..... Mike Walker
- Benchresting 1965 to 1970 ..... Bob White
- My Kingdom for a Clean Barrel..... Fred Sinclair

## BENCHREST, LETTERS

- Jack Deming ..... —Dr. Richard Maretzo
- Ed Joiner ..... —Manley Oakley

## SECTION TWO: LEAD BULLETS

- Cast Bullet Shooting ..... Andy Barniskis
- Best of the Fouling Shot..... Dave Finch
- Cast Bullet Competition ..... Jerry Goldstein
- Cast Bullets Between the Wars..... Frank Marshall
- National Records, Lead Bullets..... Sid Musselman
- The Lead Bullet Testing of Merrill Martin..... George Fullmer

## SECTION THREE: SINGLE SHOT SHOOTING

- Birth of the ASSRA ..... John Amber
- The Single Shot Lives ..... Tim Bolinger
- The Boys Rifle..... Floyd Butler (as told to Charlie Fountaine)
- The Single Shot Target Rifle ..... Gerald Kelter
- Single Shot Rifles and Accuracy..... Gerald Kelter
- The History of Schuetzen Competition ..... Rudi Prusok
- Shooting Single-Shots ..... Bud Welsh

## SECTION FOUR: BIG BORE SHOOTING

- High Power Shooting ..... Creighton Audette

## SECTION FIVE: MUZZLE LOADING

- Muzzle Loading Bench Guns ..... Don Davis

## SECTION SIX: The Pioneer Era 1947-1950

- Photos and Records

There have been many inquiries about the status of the book, and perhaps it would be best if I filled in the puzzled populace (nice little phrase, I rather like it).

To put this in basic terms, the book will probably go about 350 pages when published. In addition to the articles themselves, there are well over fifty photos. When a publisher elects to go ahead with a book of this size, there will be about \$10,000 in set-up costs, before the presses even start turning. A large publication house, such as Stackpole, does not make an investment (or gamble, if you prefer a different word) of this

nature solely on the advice of one person; other opinions are sought. At the time of this writing, there have been three complete reviews of the book . . . two by "in house" Stackpole editorial staff, and one by an outside authority. All three have recommended publication of the book by Stackpole!

Very nice, you say, what now? My friend, if I knew "what now", I would tell you, Knowledgable people, looking over the index of the proposed book have said, "this could be the landmark publication on rifle accuracy of . . . at least, the decade". I agree, and I am concerned . . . concerned because it is a selfish, but

human wish, to at least once in one's lifetime, create something that will live after he is dust . . . dead and gone. I think of this as my book, but in a larger sense, for about fifty contributors, it is OUR BOOK. If we can get it published, it may well become the accepted "standard work on rifle accuracy" for many years to come, and may serve to bring the subject of THE SEARCH FOR RIFLE ACCURACY, the proposed name for the book, into many homes whose denizens thought of a minute of angle as something to write home about.

My latest communication from Stackpole is as follows:

November 29, 1983

Mr. David Brennan  
*Precision Shooting*  
37 Burnham St.  
East Hartford, CT 06108

Dear David:

To let you know your project **The Search for Rifle Accuracy** is still being considered for publication here at Stackpole Books. We have just published the 12th edition of *Small Arms of the World* and we are carefully investigating just which book project in the firearms category we should take on next. Yours definitely deserves to be in the running.

One of these days I hope to call you with good news.

Best regards,  
Judith Schnell

Can you do something to help? Sure would appreciate it if you would! Drop a line to Stackpole Books, Cameron and Kelker Streets, P.O. Box 1831, Harrisburg, PA 17105, Attention: Judith Schnell. Tell her that you are interested in the proposed publication of THE SEARCH FOR RIFLE ACCURACY, and you hope that Stackpole makes the decision to publish it.

Stackpole Books are a respected and long-time publisher of many books that have become standards in the firearms field. It would benefit all of us if we could get OUR BOOK published.

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# The Evolution of the Benchrest Rifle

1947 - 1950

## The Pioneer Era

### Part II

by Dave Brennan

The granddaddy of them all, the Labor Day shoot at the Pine Tree Rifle Club in Johnstown, New York, had the first day's shooting start at 4:00 p.m., and end at 7:30 p.m. of August 30, 1947.

For the record, here's the way the first relay went (name, hometown, equipment, size of group):

- (1) William H. Daniels, Canton, New York, 1.500 inch
- (2) Marcy Prescott, Elmira, New York, Jordan Wasp, 7/8 inch
- (3) William Van Nostrand, Gloversville, New York, Gipson Wasp, 7/8 inch
- (4) N.H. Fadden, Canton, New York, M-54 .257 Roberts, 1 inch
- (5) Harry W. Jackman, Potsdam, New York, M-54 .257 Roberts, 2 inches
- (6) K. Wm. Buckner, Johnstown, New York, Gipson Wasp, 1 1/4 inches
- (7) Sam Clark, Jr., Oakland, Maine, Morgan & Cail Wasp, 25/32 inch
- (8) R. K. Nelson, Dubois, Pennsylvania, Wasp Mauser, 2 inches
- (9) Glen Clinton, Dubois, Pennsylvania, Nelson built Wasp, 5/8 inch
- (10) Frank Hubbard, Johnstown, New York, M70 Morgan & Cail Wasp, 7/8 inch
- (11) J. B. Smith, Middlebury, Vermont, M70 Gebby Varminter, 11/16 inch
- (12) Manley Butts, Bradford, Pennsylvania, Gipson Wasp, 13/16 inch

- (13) John J. Berrvose, Dubois, Pennsylvania, Varminter by Nelson, 5/16 inch (match winner)
- (14) H. E. Berde, Dubois, Pennsylvania, Wasp by Nelson, 7/16 inch
- (15) W. J. Prescott, Machias, New York, L. W. Jordan Wasp, 7/16 inch
- (16) Ray Weeks, Tillenburg, Ontario, .22-303, Farquarson action, 7/16 inch
- (17) Frank Bacon, London, Ontario, .22-303 Hi Wall, 1 1/4 inch
- (18) Frank Lucas, Webster, New York, M54 Lovell, 1 1/8 inch
- (19) Frank Coyle, Camden, New Jersey, M70 Target Swift, 1 9/16 inch
- (20) Al Marciante, Trenton, New Jersey, M70 Target Swift, 11/16 inch

That was the first match of that landmark gathering. We'll come back to look at it more closely later on in the article.

The second relay was won by Bill Van Nostrand, with a 5/16 inch group. Two new faces for the second match were John Benyon (Dubois, Pennsylvania), and Bob Wallack (Morristown, New Jersey), who was shooting a .219 Improved Zipper on a Mauser action, smithed by himself.

Match number three was won by another new face, Ray Biehler, of Rochester, New York, with a 7/32 inch

group, which is, of course, smaller than a quarter inch. Another new face was Harold Mallett, of Ferndale, Michigan.

Match number four went to Frank Hubbard, 3/16 inch group, another winner under a quarter inch.

The following day, August 31, shooting started at 9:50 a.m., and match five went to W. J. Prescott, for his 12/32 inch group (note that the 1949 issue of *The Ultimate in Rifle Precision* shows it as 3/16, the original match score sheet shows it as 12/32 inch). New faces included Joel Hodge of Schenectady, New York (M70, Varminter), Willard Dewey (K Hornet Savage), L. W. Jordan (Mauser Wasp, smithed by himself), and N. L. Papernek, with a Mauser .220 Swift.

Match six went to Frank Hubbard, 7/32 inch. New shooters were Willard White (Canajoharie, New York) with a Model 70 Swift, and W. Alkinburg, (Canajoharie, New York) with a .22 Hornet "German rifle". Mr. Hubbard also won match seven, with a 12/32 inch group. Match eight went to Glenn Clinton, 12/32 inch group. (Note, if you own a copy of Warren Page's *The Accurate Rifle* (you should), on page No. 27, Warren cannot recall Glenn's last name . . . It's Clinton). In match eight appears a new name, "C. Hart", no other details. Could it have been Charlie Hart, father of Clyde Hart and Bob Hart? I don't know the answer to that one!



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Match nine was won by W. J. Prescott, for his 6/32 inch group. Sam Clark, Jr. took match ten with a 12/32 group; Charles Helsing of Elmira, New York, 9/32 inch group was the winner in match eleven. L. W. Jordan took match twelve, 5/32 inch, and Sam Clark, Jr. returned for match thirteen, 9/32 inch. Al Marciante won match fourteen, with his 10/32 inch, Bob Wallack was the victor in fifteen, 12/32 inch; Sam Clark won sixteen with a 12/32 group, and Manley Butts won seventeen with the second smallest group of the weekend, a 1/8 inch (.125 in today's terms). Match eighteen went to W. J. Prescott, 13/32 inch; and match nineteen was won by Joel Hodge for 3/16 inch. Match twenty turned up the weekend's small group, a tidy 3/32 inch by Marcy Prescott, (.093), and in the final match, with the competitor numbers thinning out, a half inch was good enough to win for Bill Van Nostrand.

To close out the figures recitation, while the match score sheets (the originals of which are in the author's possession), give no grand aggregate rankings, the 1949 issue of *The Ultimate* give the following grand agg rankings: (1) W. J. Prescott, .4843; (2) Sam Clark, Jr., .6340; (3) William Van Nostrand, .6430; (4) Frank Hubbard, .6460; (5) Marcy Prescott, .6870; and (6) Manley Butts, .7500.

All right, there's the story on the first benchrest match in the East, at which the benchrest shooters organized, and the foundations were set in place for the evolution of the present day NBRSA. What about the equipment, and the shooting?

A review of the score sheets shows that 329 groups were fired "for record" by the competitors. Of those 329 groups, exactly 69 were one half inch or smaller. Our first group of a quarter inch or smaller

finally turned up in the fourth match, and there were to be a total of ten groups fired at the .250 level or smaller, which figure includes those two dazzlers, .125 by Manley Butts, and .093 by Marcy Prescott. So, 21 percent of the groups fired were a half inch or smaller. Had the day of the half-minute rifle arrived in 1947? Not really . . . . If one can bypass the .4843 agg of W. J. Prescott, it's a long ways back to the second place agg of .6340 by Sam Clark, Jr.

Now, this becomes subjective, and if you don't agree with the author's conclusions . . . . don't get carried away. What was a GOOD rifle of the day capable of agging? Disregarding the W. J. Prescott agg, I'll go with the Sam Clark, Jr. agg of .6340, and round it off to a .6500 figure. What is a GOOD (not a world-beater, just a darn good heavy varmint rifle) of today capable of agging, in good conditions, at 100 yards? I'd say about .225, as an admittedly subjective opinion. That's where we've come, then, from 1947 to 1984 . . . .650 down to .225.

There were no custom barrels involved . . . . no custom actions. The rifles were a real cross section of opinions of expert varmint and rest shooters of the day . . . . although all six of the top six fired the new wonder child, the .219 Donaldson Wasp. There were Wasps, .22 Lovells, Varminters (.22-250), .220 Swifts, .22-303, .257 Roberts, K-Hornets, .219 Improved Zippers. Actions ranged from Winchester to Mauser, to falling block single-shots, Enfields . . . . nobody brought a Remington, although one fellow did drag in a Savage of some model or other.

Interesting . . . . the shooters . . . . and the guns, at the gathering where it all started. Many of the shooters have now passed on . . . . the equipment incredibly

obsolete. But . . . that's hindsight. Next article, let's wander up to 1950, with three years of organization behind us, and we'll see how things are looking . . . in 1950.

## LEFT THE RANGE

It is with a heavy heart that I report the passing of my father Cecil C. Dorsey, of Frankfort, Ky. My Dad left the Range on November 5, 1983 after a brief but unsuccessful fight with cancer.

Dad, while not an active campaigner on the bench rest circuit was an avid varmint shooter and experimenter dating from the early 30's, and took this writer to his first BR match in 1945.

Dad was a Life Member of NRA, and an annual member of NBRSA.

Paul L. Dorsey

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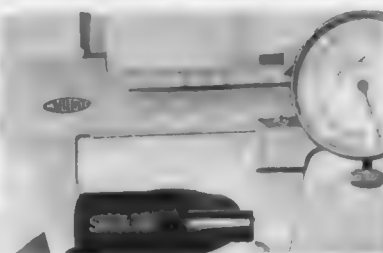
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# Accurizing The Remington Action

by Dale Hutcherson

Most gunsmiths and shooters will agree that a Remington action should be accurized if you are using it for a benchrest rifle. There seems to be a difference of opinion as to how far to carry this "accurizing" business. I personally believe you should do everything possible, as today's competition is very demanding of your equipment. Below is a detailed procedure of how I think a Remington action should be accurized.

First I chase the existing action threads with a 1 1/6 X 16 THD. bottom tap. This will take the taper out of the threads making it easier when you start recutting the action threads. Next put the action on a tight fitting mandrel that has excellent 60° centers in it. To keep the mandrel from turning in the action its tapped to accept a 6 X 48 screw. The screw goes through one of the rear scope base screw holes in action into the mandrel.

Install a split-collar just back of the front scope base screw hole. The collar is secured on the action with two small socket-head screws. Put a 6 X 48 screw in scope base screw hole in front of the collar. Put this assembly between centers. Then make a pass across the collar with a turning tool to true it with the mandrel. Usually a couple of light cuts will have the collar running true.

Now you have an option for the next step depending on your lathe. If you have a lathe with a large enough hole through spindle (assuming your chuck jaws are true) you can remove the mandrel from the action and put the action with collar attached in chuck. Leave enough of the

true collar sticking out of the chuck to get a dial indicator on it. Carefully indicate the trued collar in.

If your lathe has a small hole through spindle set the steady-rest on the trued collar while between centers. Loosen the set screws holding the mandrel in place and move the mandrel back past the action lugs far enough to work on them. Install a screw through the front rear base screw hole in action into the mandrel.

Now the most important step. Take your telephone off the hook, turn up the radio, and lock the shop door. Reasoning behind this is one "slip" here, friend, and you've just bought yourself a Remington action whether you're in love with it or not.

Set up the boring bar in the tool post. Move the boring bar into the action until the cutting edge touches one of the lugs in the action. If you have a trav-a-dial on your lathe, zero it at this point. You can also use a "poor man's" trav-a-dial, an indicator with two inch travel mounted on a magnetic block on the lathe ways. Back out of the action and start taking light cuts off of the existing threads stopping at the "zero" on the trav-a-dial. When the I.D. of the action is bored true (usually .015 oversize will clear it up) face the lugs in the action. Usually taking .002 to .003 off of the lugs in the action will clean them up and remove all the tool marks. Make sure your boring bar has a slight radius on the cutting edge. A sharp corner at the lug area will weaken the action.

Turn the compound parallel with the lathe ways and set up the threading tool in the tool post. Adjust the threading tool so it's in the bottom of the existing threads. Back the threading tool out a

few thousands and make the first pass turning the chuck by hand to make sure the tool is "tracking". When you reach the end of the threads in the action "zero" your trav-a-dial. This will be your stopping point as you make each pass. Feed the threading tool in with the cross-feed. After you feed the tool in far enough it's making a good cut, make sure it's cutting on both sides. Continue making light cuts with the threading tool until you have a small flat on the crest of the threads.

By all means, the shooters should make an effort to keep their rifles clean and well lubricated. Probably over half of the rifles I work on aren't as clean as they should be or the lugs are showing signs of not enough lube. I recommend lubricating the lugs after each match regardless of brand of action. Keeps the lugs looking like new and the bolt will work smooth.

Sorry I got off the subject but I'm a fanatic when it comes to keeping your rifle in excellent condition.

Next, face the bearing side of the bolt lugs until they are trued. Usually .002 or .003 will be sufficient to true the lugs and remove all the tool marks.

Take the bolt out of the lathe and remove the mandrel. Install a new extractor, polish the cam on the rear of the bolt and adjust the firing pin protrusion to .050. If using the ejector on the Remington bolt I like to shorten the ejector spring enough that the fired case stays in the action when the bolt is opened.

The next step is to lap in the lugs. This will be a quick and simple chore since the lugs in the action and lugs on bolt were both trued. Use a barrel stub with the

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recess for bolt nose .001 larger than the bolt. This keeps everything lined up while lapping. I start lapping with 280 grit and finish up with 400 grit lapping compound.

If you're going to use a PPC case the Remington bolt face will have to be corrected as the PPC takes a bolt face of appx. .450 in diameter. It will have to be bushed, ejector hole plugged, bolt face depth shortened to .125, and a Sako or M-16 extractor installed. I personally like the Sako extractor the best because less metal is removed from the bolt.

Finally, one last item to consider. If the rifle isn't going to be a glue in, there's no use going to all this trouble on the action if you're going to use a recoil lug that's not square. Factory recoil lugs usually vary .0005 to as much as .003 in thickness. I have a friend true mine on a surface grinder. After being ground on both sides they will be within .0001 when checked with a good micrometer.

I firmly believe that opening up a Remington action by as much as .025 has absolutely no effect on the strength of the action.

Although this work is expensive and time consuming, this is my opinion of what it takes to make a Remington action compete with the fine custom actions on the market today.

If you removed .015 to true I.D. of the action the minor diameter of the threads will be appx. 1.015 and the major diameter will be 1.077. The ideal situation is to have a custom tap made to chase the threads in the action after using the threading tool. Assuming you have a custom 1.077 tap on hand, stop with the threading tool when about .001 short of having the desired depth of the threads. After you do a few actions you will know when it's about time to switch from the threading tool to the custom tap. Feed the tap into the action with a wrench while holding it straight with a center in the tailstock.

Probably the best but not the least expensive way to go if you're getting into

this work is to get a tap .005 over standard to clean up the existing threads on Remington actions. Then invest in a tap .015 over and one .025 over standard to use on actions you recut the threads on. They will all clean up .025 over standard.

Now that we've got excellent threads true with the boltway, face off the front of the action. Usually .003 to .004 will take care of this. Next remove the first .100 of the threads in action. This eliminates undercutting the barrel shank at the shoulder when you thread the barrel. If you're using one of the fine custom bolts that are available in limited numbers all you have left to do is lap the lugs. Always be sure to check the custom bolt to make sure everything is true. If using the Remington bolt, we've still got a lot of work to do.

Remove the firing pin assembly from the Remington bolt and install a threaded mandrel in its place. Open the chuck far enough to get bolt lugs past the jaws. Close the chuck on the bolt body and indicate the bolt body until it's running true. Then take light cuts on the mandrel until it's true. Open the chuck and swap ends with the complete assembly. Put the mandrel in the chuck and put the tailstock center in the firing-pin hole in face of bolt. (Make sure the firing pin hole is in center of bolt face). Indicate the mandrel in your chuck until it's running true. Put the steady-rest on the bolt body about one-half inch back of bolt lugs. Lubricate the bearing area of steady-rest jaws with STP. Back center out of firing-pin hole.

Set up the dial-indicator in tool post and check the bolt face. If it's out over .0005 remove the extractor and true the bolt face. Usually about .002 will true bolt face and remove all tool marks. After removing .002 or .003 off the bolt face and appx. the same off the end of bolt nose to square it with the bolt face, the depth of the bolt face will remain appx. the same. On a Remington bolt this usually runs from .148 to .150.

Next I measure the distance from the end of the bolt nose to front of bolt lugs. Although this isn't critical I like for this measurement to be .005 more than the depth of the bolt face. After the barrel is fitted with this set-up, the bolt face will be flush with the end of the barrel shank and you will still have .005 clearance between the end of barrel and front of the bolt lugs. While facing the front of the lugs to achieve this measurement, turn the bolt nose true. It will true up somewhere around a diameter of .690. When fitting the barrel make the recess in the barrel about .001 larger than the bolt nose. I like about .003 clearance between the end of bolt nose and bottom of recess in barrel.

In case a bristle should come off your brush or you have an accumulation of other foreign material you could still close the bolt. Shooters should try the bolt in their rifle before each match begins.

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# The Internal Concentricity Comparator

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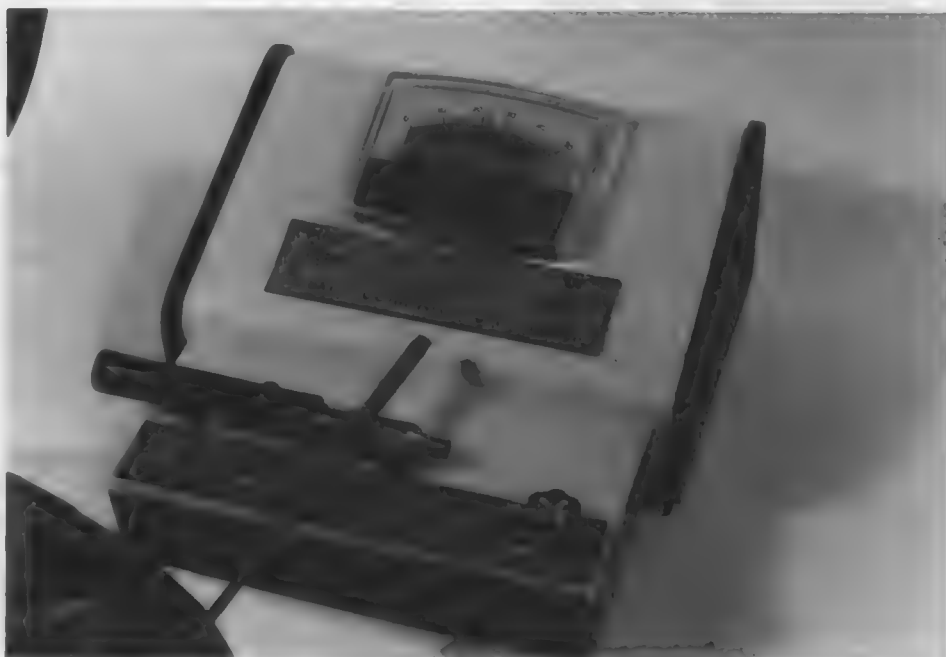


The Internal Concentricity Comparator is an electronic unit designed to measure variations in case, bullet jacket and finished bullet wall thickness. It is built and offered by Vern S. Juenke of the Accuracy Den, Reno, Nevada. The item being checked is supported on several steel balls above the detection unit and is rotated with the fingers or a wand which is supplied with the ICC.

The controls and required adjustments are quite simple and with the help of the supplied instruction operating sheet proper adjustments and calibration are possible if initial use and practice along with these instructions are followed step by step and with different size items. We found that after a half hour of practice following the instructions we could make the required adjustments with ease.

The ICC is made up of two plastic bodies connected together. The top holds the Deviation Unit meter, the on-off power switch and a battery check switch. The lower part of the housing has the support balls, detection unit, and an adjustable plastic stop required to align the case, bullet or jacket properly over the detector. In addition, the lower part of the unit body has a selector switch for sensitivity, another switch for low or high range and a ten turn potentiometer.

When the ICC is turned over, the 9 volt battery and electronic parts are exposed. The board has three mini potentiometers, two of which are at times used to adjust



the unit for different sizes of case or bullet. With the sensitivity switch set at XI, the meter will indicate .00005" per small division and full scale equals .0005". When the switch is set to X.5 each division equals twice the above amount. Full scale then will equal .005" and each small division is .0001".

There is some level of proficiency required to get the most useful readings. First, since we are interested in readings of .0001" or less the pressure applied with the fingers or wand must be uniform or the case, bullet or bullet jacket will be depressed toward the detector and result in false readings. Second, the rotation should be slow enough to prevent needle movement which is fast enough to cause over shooting due to the weight of the needle. Practice quickly eliminates this possibility.

After several weeks of working with a sample model of the ICC I found that it was faster than mechanical means of checking cases, bullets or jackets.

However, if speed of checking bullet jackets, for example, is rushed beyond certain limits, errors in reading start to creep in. In addition, I personally found that the lower scale, i.e., full scale being .005", was more useful than the finer readings. With the finer readings, the total movement of the needle, even for bullet jackets of .0002" to .0004" was of such proportions that operation was slowed because it was hard to keep up where the needle was stopping during it's extreme indications. I would not be interested in readings as fine as .00005" since I know from experience that such minor levels of error are to be found in case or bullet, the information offered was of little value.

Bullet jackets can be checked at a very good rate to be sure. And when selected jackets were checked by mechanical means and the ICC, results were the same. This held true when checking cases, both new and fired. I had my best results and best operation speeds when

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using the wand. However, another person who used and tested the unit with me found that he got his best result and speeds when using his fingers.

It is easy to tell when the thickest and thinnest areas are being indicated. A downscale meter reading indicates a thicker wall. An upscale reading indicates a thinning of the wall. It should be kept in mind that the ICC will also detect an out-of-round condition and therefore bent cases or bullet jackets may be better than indicated.

There exists a lead damping factor effect when checking formed bullets. The level or damping depends on the ratio of lead to copper and therefore as formed bullets are checked the actual jacket wall thickness errors are greater than indicated. The advertized error runs about .85 on .224" bullets to about .6 to .7 on 7 MM and larger bullets. We found that the error factor was somewhat larger when checking .30 caliber bullets. A check of some Sierra 168 grain match bullets indicated a jacket error of .0001" to .0002" and at times even smaller. When the cores were removed from the jackets, which is quite a lengthy process to prevent other errors, the jackets checked on the ICC as having an error of .0004" to .0006".

This writer as well as *Precision Shooting Magazine* seldom get into the business of dollar value. Price of items, we feel, is a matter between the buyer and seller. The price of the ICC is \$289.00. This is due to the fact that they are fabricated, assembled and tested by Vern Juenke, are made on order, and are in addition to normal gunsmithing activities. The ICC will measure with valid results and therefore for those who feel

it's capability is required, the cost will be acceptable.

For more information or to order, write: The Accuracy Den, 25 Bitterbrush Road, Reno, Nevada 89523.

• • • •

October 27, 1983

Shilen Rifles, Inc.  
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ATTENTION: Mr. Ed Shilen

Re: Strange Electronic Devices

Dear Ed,

Received your package on Wednesday, October 26. Opened it.

I'm reminded of the phrase that constantly appears in the tales of the Round Table, the Arthurian Chronicles, when some befuddled knight would turn to his associate, and say "... this be passing strange".

The device indeed be "passing strange". I guess you think the editor was simply being modest and humble when he remarked in print that he had all the mechanical aptitude of a dead aardvark. Not so, I may be understating the case. The operation of a doorknob is occasionally more than I can handle.

After opening the box, I looked at the Wonder Therein. To my simple mind, it looked like the Center Console at The War Room. I even turned it on. The needle moved. I do not believe that one should push fate too hard .... I turned it off.

I have just shipped the Infernal Device off to Rick Hornbeck, who loves to play with gadgets. This one should put him in a state of Nirvana for weeks. Probably

neglect his job and family to muddle with it on a full time basis.

I know, I know . . . you're going to say that I'm a genius for handling it this way. True, true.

On the other hand, if the device makes the user sterile, or impotent, or makes his drinks taste funny . . . well, it's better we lose a columnist, than the editor . . . right? I certainly think so!

If the device doesn't blow up Pine Bush, New York, and the good Colonel, this should be interesting.

Thanks for passing it along. Let me guess; all you did was turn it on yourself, right? Thank heavens for people like Rick . . . great barrel makers and great editors are characterized by their ability to find those who have talents that they . . . well, I am reluctant to say "lack", let us instead say . . . "that they have chosen not to attain". I like that better.

Best regards,  
David D. Brennan  
Ye Olde Editor

P.S. Just heard from Rick. He turned it on. Five hundred picture tubes blew right out of their sets in Pine Bush. He wants to know how to turn it off. Wire instructions on this point, please.

cc: Rick Hornbeck

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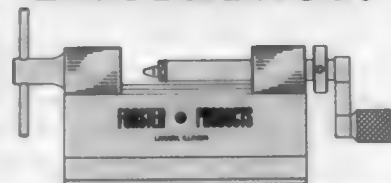
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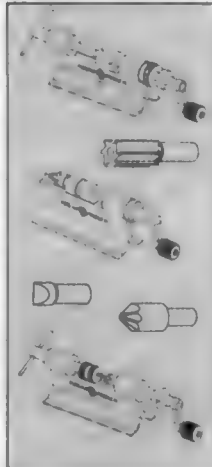
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# Turning Down That Rifle Barrel

by Geo. M. Fullmer

A job that continually comes into the custom gun shop is turning down a barrel. Bench resters will often shoot a top quality barrel through a couple of seasons, and finally reach the conclusion that Old Bessy is starting to lose her gilt edge, and is no longer capable of winning in top-level competition. Mind you, she is still capable of outshooting 99.99% of factory barrels; it's just that last year's groups that were in the high "ones" are now in the mid-twos in the same conditions. The barrel is still darn accurate; it's just that it is no longer super-accurate. If it has not been set back too much, a logical thought is to turn it down for a light, handy varmint barrel, to be used for varmint shooting and woods wandering.

If one uses a ball bearing center in his tail stock, on turning, very shortly he will find that the barrel is vibrating like the dickens, the surface finish has gone to pot, and unless he is extremely fortunate, he will have a very uneven surface to true up. Also, the barrel tends to lengthen with

heat, and will come up with some remarkable curves that might be attractive on a lady, but which don't look so hot on a rifle barrel. These will happen with our most modern barrels. Older barrels made in the 20's and early 30's are another ball of wax. They started life as 1.00 inch bars, heated red, and bumped up at breech end to 1 1/8. Here we have a built in stress, and I have never been able to turn these without further movement as the stresses were relieved in the turning process.

Several makes and types of ball bearing centers have been tried here with considerable unhappiness, with the results being the final conclusion on the matter.

Many years ago, Bill Strattmann took an old #2 Morse Center of mine, and inserted a half inch diameter piece of carbide in it, grinding the center to sixty degrees. This has been very handy, and quite usable. Such a tool, if not made by a friend though, can be extremely expensive. It also has the slight disad-

vantage that one should keep an eye on the barrel, so that at any time when needed, he will be able to loosen the tailstock so as not to introduce warpage, due to its lengthening. At the same time, if your toolbit is taking a healthy cut, the barrel itself will wear at contact point, and we will have it bouncing around, with attendant rough finish.

Merrill Martin recently brought into our shop a spring loaded ROLLER bearing center. He uses them in his shop on extremely large lathes, and in the process of turning very large and heavy bars of steel; these bars may weigh over one thousand pounds. This center is made by Concentric Tool Corporation, 1539 East Walnut Street, Pasadena, California 91106, and has two sets of needle bearings and several ball thrust bearings, along with an extremely strong thrust spring. It is used by holding your barrel with very heavy pressure, backing the pressure off to a certain accepted amount, then letting your SHARP toolbit do its stuff. The finish on work that is properly set up, using this tool is BENCH REST QUALITY. Work done here, using this tool, when compared to work done with a NEW ball bearing center, of top quality . . . well, there is no comparison . . . the Concentric Tool product is light years ahead. I have to admit that I have not used every ball bearing center that is available, but I have used a heck of a lot of them, both inexpensive and darn expensive, and none of them are in a league with this product.

The tool is not cheap. Merrill tells me that in his shop, they last so long, and do such fine work, that in the final analysis . . . they are cheap.



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and Mounts

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## An Interesting Letter

Background: In the November issue, the Editor advertised in the Trading Post section for a McMillan action for his collection of custom actions. Had three responses, and ended up purchasing one. Also received this letter, and am printing it in case one of our readers might be interested in the critter. Seems like a reasonable price for a nice rifle, to me.

Dear Dave,

Your ad in *Precision Shooting* for a McMillan action caught my eye.

I sold my McMillan rifle some time back, but I do have a rebuilt Remington 722 by McMillan. This is the standard rifle with a steel sleeve measuring 1.58" and is engraved with McMillan's name on the side followed by the serial number which he also engraved. The sleeve has a cantilever extension for the front scope block. Pat McMillan had stocked the rifle in walnut with walnut buttplate. Weight just over 9 lbs. His barrel is 22". Fore-end is beavertail type for light varmint class. Caliber is tight-neck .222 Rem.

Bolt knob has been hollowed. Firing pin has been lightened. Magazine is blocked off and stock does not have a floorplate. Finish of the sleeve is stain gray. Trigger is Canjar. Scope blocks are Weaver. Barrel is stainless.

McMillan brought this rifle to Midland, Texas, shot it in the matches, then sold it there.

I talked with Harold Broughton and he was of the opinion you would not be interested. That you wanted Pat's action, not one he had rebuilt. I am asking \$350.00 or if a 20X Lyman with dot and Weaver mounts is included, \$450.00. If not as represented, full refund.

Advancing years took me out of competition, but I still read the shooting journals with enjoyment.

Yours truly,

H. B. Reagan  
Box 1109

Big Spring, Texas 79720

### VOLUME II of THE BOB PEASE COLLECTION,

a spiral bound supplement on accuracy rifle shooting now joins the popular Volume I to help guide you on bedding, accurizing, case preparation, neck turning, scoping, loading and shooting techniques for rifle accuracy. Volume II is \$6.95 first class mail. Volume I still available at \$5.95 first class or get both for \$11.85 and save. Bob Pease, POB 787X, New Braunfels, TX 78130

## TRADING POST

One man's "Junk" is another man's "Collector's Item!" Turn your surplus items into cash with a Trading Post ad. ORDER FROM EDITOR.

Groups of figures, abbreviations and initials count as words. Hyphenated word counts as two words. Name and address of advertiser is counted. Use full words instead of initials and abbreviations and make your meaning entirely clear.

Classified type ads: no display. Rates: 15 cents per word per insertion, prepaid. Minimum charge is \$1.50. Closing date for ads is the 20th of the month preceding publication.

**FOR SALE:** *Precision Shooting* magazine. 224 issues, 1956 to 1975. 15 complete years. \$195.00 postage paid, or **trade** for new Leupold 36X crosshair scope. Douglas Canaday, P.O. Box 335 Hayes Road, East Greenbush, New York 12061. (518) 462-6079.

**FOR SALE:** 40XBR, 6PPC, boltface, M-16 extractor, Hart 2 oz. trigger, McMillan barrel, McMillan stock, all done by Sinclair, Sinclair sizing die, Wilson seater, 50 rounds brass, protecto case. Leupold 36X, shot in five matches. \$800.00 Call (703) 992-1739. Eddie Kurz.

**FOR SALE:** Davidson sleeved, 722 action, PPC bolt face, Sako extractor, Presto bolt stop, Davidson bolt shroud. 2 oz. trigger, smithed by Seely, and ready for barreling. \$350.00. Used McMillan hunter class stock, \$45.00. Leupold 16X scope, \$180.00. Mel Estep, Bellevue, NE. (402) 292-9596.

**FOR SALE:** sleeved XP-100, M-16 extractor, 700 bolt handle, 2 oz. trigger, metallic burgundy McMillan stock w/weight system in butt, .222 Hart barrel. \$425.00. Marty Gordon, Rt. #2, Box 102, Hamburg, Iowa, 51640. (712) 382-1540.

**FOR SALE:** (1) New all Shilen made .222 light varmint rifle with Shilen barrel, Shilen thumbhole stock, Shilen DGA/BP action, Shilen 2 oz. trigger and Shilen brown in color. \$850. (2) New Weaver benchrest scope, 30X. \$149. (3) Heavy varmint rifle with Davidson (octagonal) sleeved Remington 40XBBR action, M16 extractor, Rem. 2 oz. trigger, 6PPC Sherer barrel (316 shots) and 22 PPC Shilen barrel (401 shots), McMillan stock, burgundy color, T.J. Jackson smithed. \$550. (4) 22 BR Remington cases. \$7 a box. (5) R.C.B.S. Uniflow powder measure. \$25. (6) True square media tumbler and media, new, model A-R6. \$40. (7) SMALL GROUPS: enough to help you displace Don Geraci as Benchrest Shooter of the Year in 1984! Write or call for price and details.

Shooters with three or more points in 1983 need not inquire. Don, congratulations and continued success in 1984! Larry Nixon, 3765 Walnut Creek Drive, Columbus, Ohio, 43224. Phone (614) 475-5896.

**FOR SALE:** Remington 600 sleeved action, Meyer 30 degree bolt, 6PPC Sherer barrel, Lee six SST stock, 2 oz. trigger, Leupold 24X scope \$650.00. Seely Masker (914) 769-2627.

**FOR SALE:** Hart H.V. action, Brown glass stock, 2 oz. trigger, .222 cal. 24" max diameter barrel, Redfield 3200 24X scope, 100 cases, Ferguson seater and sizer, extra buttons \$600.00. Sleeved Rem. action, glass stock, dies, cases & bullets, 25X Lyman scope, 6PPC, \$575.00 or \$450.00 without scope. After 5:00 PM, call Rich (203) 453-3309.



## HART RIFLE BARRELS, INC.

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### PRECISION STAINLESS STEEL MATCH TARGET BARRELS

AVAILABLE IN .224, 6MM, 6.5MM, 7MM,  
.25 and .30 calibers, also .22 rim fire.

Gunsmithing services and complete custom target and sporting rifles available.

For prices and particulars, write:

### Hart Rifle Barrels, Inc.

LaFayette, New York 13084, R.D. No. 2

Telephone 315-677-0041

Ye Olde Editor:

First, where is my #@!%#! raise? You mentioned it in the December issue of P-S, and I have yet to see any money. 'Tis the season . . . etc., etc., etc.

Second, my "audience" has now expanded to include a fan. This is not your ordinary, run-of-the-mill fan, but a FAN who was ready to take "Ye Olde Editor" to task for certain attacks aimed at me in the December issue. I assured him that your comments (1) were meant to bring levity to the magazine and (2) the lawsuit I've brought against you is coming along nicely.

Third, what happened to the comments you were going to make about "The Book?" Somehow I had the impression they were going to be included in the December issue. Hopefully, the problem was space rather than a lack of interest. (Editor: space was the problem, hope it's in February).

Fourth — and finally — I have enclosed some material that you may (or may not) be interested in using in the magazine. I think Tom Hexum's suggestion concerning drawings of some of the cartridges being used in benchrest these days (perhaps along with some of the wildcats being dreamed up for varmint hunting) would be of interest (1) to the present readers of the magazine (2) and, hopefully, to some readers who don't presently subscribe. I should think somewhere among your "friends" you count a draftsman who could handle the cartridge drawings, and editing the "comments" wouldn't be much of a chore. Since these things are of interest to me, I'd be happy to help — but NOT with the art work. (The "whys and hows" could include the likes of what the "father" had in mind with the changes, case forming, problems encountered, results, etc., etc., etc.) I think it would make a nice addition AND a useful one.

I think we should have a series of articles on raising the Sporter Class to .25 caliber. Not enough arguments these days in benchrest! The hell with the sandbags!!

I'm looking forward to hearing from you at your earliest convenience. Include my check.

Best regards,  
Jon



Jon Leu  
(Sinclair, Inc.)

## WILDCATS

Sitting beside me as I write this are a couple of 6mm Sandjammer cases forwarded by Colorado gunsmith Dan Dowling for my collection. A like number of 22 Hex cases should be arriving before too much longer — a donation from Minnesota benchrest shooter Tom Hexum.

I'd be almost willing to bet an accounting of the number of people who know what either a 6mm Sandjammer or a 22 Hex is wouldn't really overburden my calculator (fingers and toes). Counting up the number of people who know what they **both** are most likely wouldn't even require my taking off my socks.

The point is, we have — for better or for worse — a lot of wildcats being used

in benchrest shooting these days, and their given names rarely provide much of a clue as to what these cartridges really are. The shooter new to the game or the old hand trying to figure out what's going on out there can't turn to a handloading manual for the answer. Ackley's two-volume book is getting dated: some of the "newer" benchrest cartridges included there are the 219 Donaldson Wasp and the 6x47 — both of which have more white hairs than Ye Olde Editor.

While the wildcatters have seemingly ended their love affair with insects (22 **Flea**, 22 **Hornet**, 218 **Bee**, 219 Donaldson **Wasp**, etc.), the names being given cartridges today are hardly more descriptive. The aforementioned cartridges — the 22 Hex and 6mm Sandjammer — offer no clue to their real identity. Ditto for "22 Waldog." And how about the "PPS" cartridges being used by the shooters in the St. Louis area?

This is all very confusing to the person who likes to try to keep up with what's going on out there. It's even more confusing to the new shooter who feels he can ask only so many questions in his quest for knowledge about precision shooting before wearing out his welcome.

A recent letter from Tom Hexum contained the following comments: "Maybe you would also like to take on the job of making new cartridge designations more descriptive. A lot of the new ones **seem** to be 6PPC or 22 PPC run in short so maybe they should be stated in terms of a percentage of the full length PPC. A .125" shortened 22 PPC — called a

### IN MEMORIAM

To my friend Glenn Price who was one of the pioneers of the 6mm in the Southwest Region and through his many efforts contributed to the development of the Southwest Region and gave so very much of himself to our sport and to his fellow shooters. The warmth of his companionship will be missed by myself and all his friends.

JACK ALLEN

# McMILLAN M BARRELSN

World  
Record

Light  
Varmint

5 Shots  
100 Yds

.009"  
Mac McMillan  
9/23/73

# McMillan Rifle Barrels

---

*"McMillan rifle barrels over the years have dominated the shooting world. They hold more world records, have won more national and international championships in small bore, big bore and in benchrest competition than any other barrel in the world."*

*Pat B. McMillan*



Bill has over 20 years experience, and is one of the very few gunsmiths (if not the *only* one) who has this level of expertise and is proficient at working on all competition-type weapons—from rifles to pistols to shotguns. He is technically oriented, and pays great attention to the smallest details, emphasizing accuracy and correctness in his work rather than speed.

Because of his years of experience, his fine workmanship and his attention to detail, any firearm Bill Wiseman touches comes out a winner.

*"That is why I asked Bill Wiseman to take over the McMillan Barrel operation. Bill will operate under the same name, to which I agreed only because I know the quality of the product will be maintained; also, I will be associated with Bill on a consultant basis. I have worked with him and feel sure that he has the ability and dedication to perform in the same manner to which you are accustomed."*

*Pat B. McMillan*

# U.S. International Gunsmith

---

That title belongs to only one person—Bill Wiseman, who is the driving force behind the McMillan barrel operation.

- He's been at the top, serving as the gunsmith for the U.S. International Shooting Team. Since 1964 his travels have taken him around the globe, as he has accompanied U.S. teams to various foreign sites to try for world and international titles.

- Both rifles used in the Montreal Olympics in 1976 by Gold Medalist Lanny Bassham and Silver Medalist Margaret Murdock were built by Bill Wiseman, using McMillan rifle barrels.

- During the '74 World Championships, Bill completely rebuilt Margaret Murdock's rifle the night before she won the gold. She later used this same rifle to set a world record in the Pan Am Games in Mexico.

- Lones Wigger, who is the greatest international competitor and medal winner in the history of the United States has called on Bill Wiseman for his services over the years.

Bill joined the United States Marine Corps in 1959, and spent 16 of his 20 years in the Corps as its premier gunsmith which has led the Marine Corps shooting team to many championship titles. He is a distinguished rifle and pistol shooter, and has won many titles. Over the years because of his shooting ability and the fact that he has participated in competition, Bill has a unique insight into what the shooter's needs are.

After serving as a sniper in Viet Nam, Bill returned to the Marine Marksmanship Training Unit at Quantico, Virginia, where he was given the task of building a sniper rifle. He proceeded to design and build the new rifle—the M40A1—the most advanced sniper rifle in the U.S. armed forces, and perhaps in the world.

Today you can find Bill in College Station, Texas. So if by chance you just happen to stop by his shop.

You won't find him in the office because he doesn't have one. He will most likely be found behind a machine turning out rifle barrels, working on a competition firearm or just a

farmer's shotgun. In either case he always takes time out to listen.



*"Whether I'm building rifles or pistols for competition or just a hunting rifle, or a McMillan rifle barrel, I build them with one thing in mind—to build a winner."*

*Bill Wiseman,  
U.S. International Gunsmith*

# A Brief Scenario of the Barreling Process

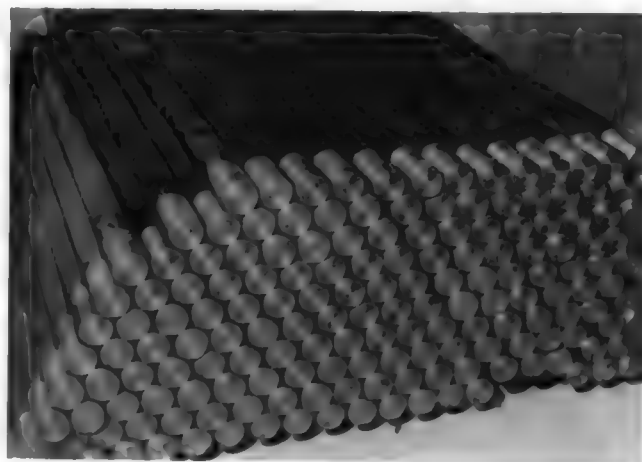
Once we receive the stainless steel from the mill in our shop, it is tested for hardness to see that it meets our specifications. It is then cut into 30-inch lengths and deephole drilled for different calibers. At this time each barrel is checked by a special process for straightness. Then the barrel is reamed to its finished bore size. Once again, each barrel is checked this time for dimensional variation and tool marks.

The next operation is rifling, and in our shop the button method is used. After rifling, all barrels are stress relieved in a special oven. Once an order is received the barrel is turned to contour and then lapped with a special lapping liquid.

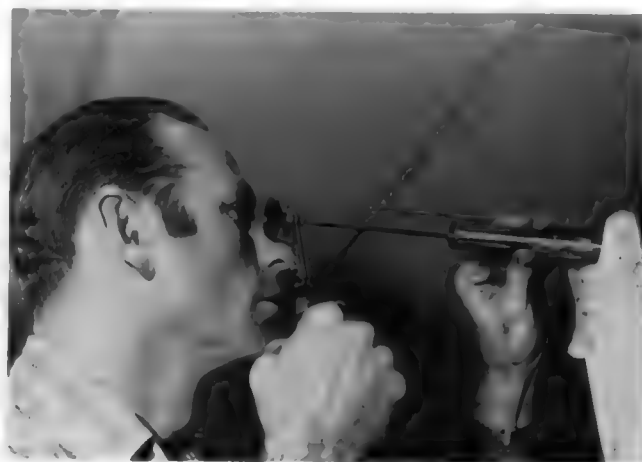
Each barrel is inspected to insure that it is within tolerances both in bore and groove dimension, and free of tool marks.



*"Every barrel that is produced in our shop is made one barrel at a time. It is machined with exact precision and care so that our customers obtain the finest rifle barrel in the world today."*



*Barrels made of stainless steel give the target shooter 25% or more accuracy life.*



*All bore surfaces are visually inspected with an optical device inserted into the barrel. It clearly shows any flaws which might affect accuracy.*



*All barrels are hand-lapped.*

# Barrel Twist



*All rifling buttons are made in this shop to tolerance within .0002" and with a surface finish better than 4 Micro.*

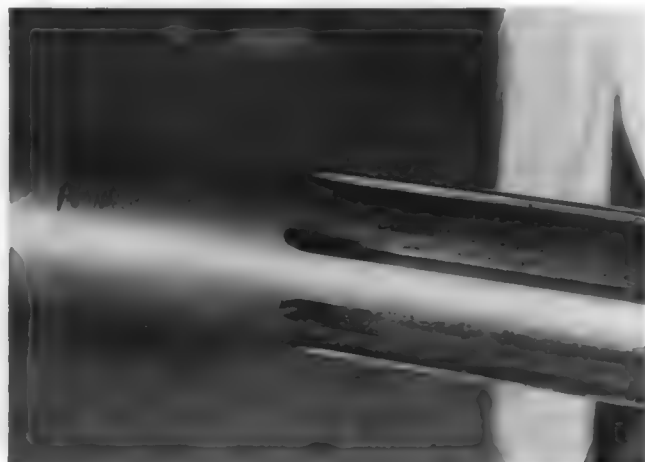
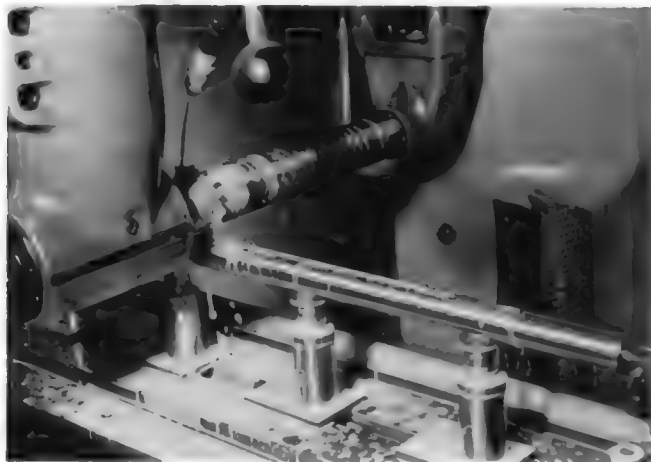
Caliber	Twist in inches	
22 rimfire	16	
22 center fire	12	(For all bullets, but best for those heavier than 55 grains.)
	14	(For bullets up to 55 grains.)
6mm/243	10	(For all bullets, but best for those heavier than 90 grains.)
	12	(For 70-to-90-grain bullets.)
	14	(A specialized benchrest twist for bullets up to 70 grains. Available in stainless steel only.)
257	10	(For all bullets, but best for those heavier than 100 grains.)
	12	(For bullets up to 100 grains.)
6.5mm/264	9	
27	10	
7mm/284	9	
30	10	(For all bullets, but best for those heavier than 168 grains.)
	12	(For bullets up to 168 grains.)
	14	(A specialized benchrest twist for bullets up to 168 grains. This is the ragged edge of stability. A 12-inch twist is safer for most shooters.
		Available in stainless steel only.)
338	10	} Available Special Order Only
358	12	
375	12	
458	14	

## Barrel Twist

When more than one barrel twist per caliber is listed, the correct one depends on the weight of the bullet. The heavier the bullet, the faster the twist needed to stabilize it.

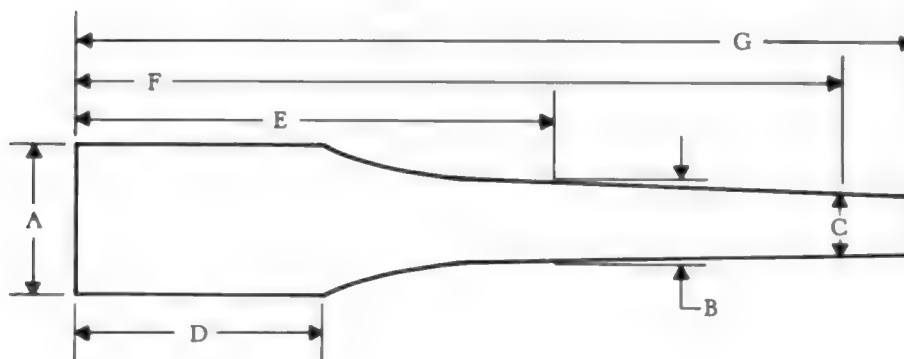
In shooting an extremely wide range of bullet weights, you would be better off with the fastest twist offered for it will stabilize all bullet weights. But if you have a bullet weight preference, then choose a twist specifically for that bullet weight. This way, you'll achieve maximum accuracy.

# Fluted Barrels



*Increase surface area which allows faster heat dispersion (cools faster), increases rigidity and yet you have less weight.*

## Barrel Contours



Where possible, we suggest using as heavy a barrel as is feasible, for it is an established fact that heavier barrels produce better accuracy, especially over longer periods of time.

Number	A	Dimensions, inches						Weight, pounds at "F" length
		B	C	D	E	F	G	
1 Sporter	1.200	.780	.625	2.5	7	24	26	3.0
2 Magnum Sporter	1.200	.835	.650	2.5	7	24	28	3.75
3 Lightweight Varmint	1.200	.900	.700	3.0	7	26	28	4.0
4 Mediumweight Varmint	1.200	.950	.750	3.0	7	26	28	4.5
5 Lightweight Target	1.200	---	.750	3.0	---	26	28	5.0
*6 Bull Barrel	1.200	---	.900	4.0	---	26	28	6.0
*7 Heavy Bull Barrel	1.200	---	1.000	4.0	---	26	28	7.0
*8 Rimfire Target Barrel	1.125	---	.825	4.0	---	26	28	5.5

\*Straight taper.

### Preturned polished rifle blanks

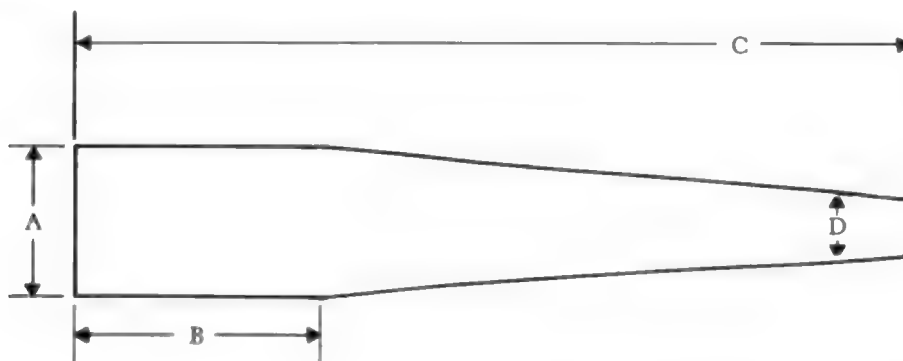
When ordering—Specify

1. Caliber
2. Twist
3. Contour
4. Round, Fluted

Preturned polished barrels for Anschütz and Walther actions.

## Benchrest Barrel Contours

We install McMillan barrels on all makes of safe-bolt action and falling block receivers.



### Light Varmint & Sporter

A 1.200 B 4" C 21" D .875

### Heavy Varmint

A 1.250 B 5" C 29" D .900

### Hunter

A 1.250 B 4" C 26" D .750

### Pretuned Benchrest Barrel Blanks

When ordering—Specify

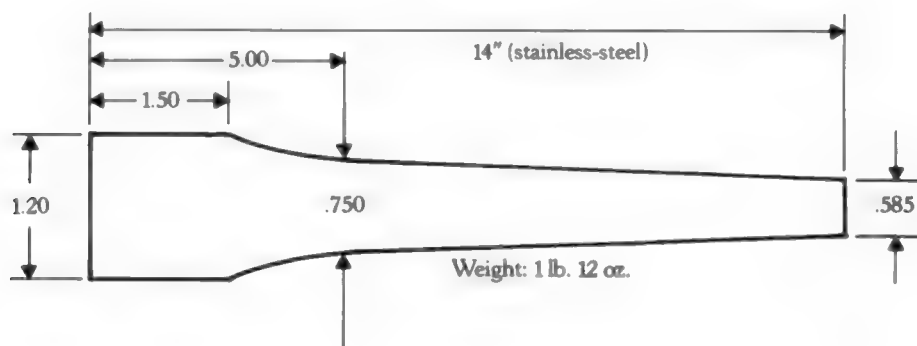
1. Light Varmint & Sporter Caliber & Twist
2. Heavy Varmint & Caliber & Twist
3. Hunter & Caliber & Twist

**Straight Cylinder 30" long any diameter**

From 1.200 to 1.250

## Silhouette Pistol Contours

We install McMillan barrels on bolt-action silhouette pistols.



### Unturned silhouette pistol barrel blanks

All unturned cylindrical blanks measure 1.250" in diameter and lengths specified for pretuned barrels.

### Pretuned silhouette pistol barrel blanks

1. Caliber
2. Twist



## Ordering and Shipping Information

---

### Ordering

*Out-of-state customers* needing our shop services such as rebarreling, repair or alteration, can ship their rifles or pistols to us without a dealer's firearms license. We can also ship directly to them.

*Texas residents* can order rifles, barreled actions and other components and services without dealer participation.

*Out-of-state customers* can legally purchase rifles, barreled actions, from us in two ways:

1. By placing the order through a dealer with a federal firearms license.
2. By ordering directly from us, but supplying a copy of a dealer's federal firearms license and the dealer's address.

**In either case, the order can be shipped only to the dealer.**

### Shipping

We ship by registered parcel post or United Parcel Service (UPS), and we recommend that our customers do the same.

**Payment must be made in advance of shipment unless customer has established credit with us.**

### Estimated Delivery Times

Barrels: 2 to 3 weeks

Rebarreling Services: 2 to 6 weeks

Custom rifles available: estimates given on personal inquiries only; delivery time—2 to 3 months.

"McMILLAN RIFLE BARREL"



Mailing Address:  
P.O. Box 3427  
Bryan, Texas 77805

(409) 846-3990

Shipping Address:  
3604 Old College Road  
Bryan, Texas 77801

Waldog — would be, based on full length, a 22PP91 (91% of a full length 22 PPC). My 22 Hex would be a 22-220 (94)/30° (full length 220 Russian case but shoulder pushed back to 94% of the original shoulder length on the original 220 Russian case). I see problems already." The system proposed by Tom WOULD be descriptive, but it would be sort of like turning back the clock 100 years and giving everyone a British accent.

Tom's next idea has, to me, a whole lot of merit. "Maybe it would be easier to publish a diagram of a case with basic case dimension left blank in one of your articles and then ask people to fill in the dimensions and send them to you. It would be nice to see what some of these cases are and to see how many are the same." That, to me, is good thinking.

It seems to me that an august publication such as *Precision Shooting* is the ideal place to turn for those interested in current trends in wildcatting. With the possible exception of the handgun silhouette people, there's probably more tinkering and reamer grinding going on among the readers of P-S than anywhere else.

In more cases than I'd like to think about, the left hand (East Coast) more than likely doesn't know what the right hand (West Coast) is doing. Over the past few weeks I've talked to Hunter Class shooters from the southeast and the southwest. One bunch talks about the BR Long while another group talks about the 6 x 44. Bob Pease, who's sort of in the middle of it all, tells me the cases are one and the same — or essentially so.

It's really not a question of who did what first or who's got the better cartridge. It would just be nice to know what some of these cartridges are and how they compare with one another. A drawing giving basic cartridge dimensions along with some pertinent comments from the "father" of the cartridge (the whys and the hows of the thing) should be of more than passing interest to the readers of P-S. It might even have the side benefit of getting a wider "audience" for the magazine, some of whom might eventually become interested in the precision shooting sports.

(Editors comment: Back to the opening letter. I am incredulous that, in one of the Leu-Brennan printed brawls that we have from time to time, **someone** would support Jon Leu. Sooner or later, I'll find out who it was and unless it was his wife or his mother (which is quite likely). . . . that person is coming off the mailing list so darn fast . . .)

## Letter To The Editor

Dear Dave:

I have been reading the comments in recent issues of *Precision Shooting* concerning accurizing the Remington action.

Many of these comments concern the straightness of the threads in relation to the center lines of the action bore. There is no doubt that this is a critical factor; however, I believe that they are approaching the problem in the wrong way. Any threaded joint that has to resist torque must depend on a shoulder for locking purposes. If this shoulder is square and flat, the surface contact between the two faces is what effects the lock-up, not the fit of the threads. This is what puts the worm in the apple. If the threads are a tight fit in the receiver when the barrel is locked up to the shoulder, the barrel can and will shift only a small amount to one side or the other. If the thread fit is loose, the barrel can shift over by the amount of slack in the thread.

By studying the above you can very easily see that it is impossible to get an absolutely true bore line when we use a square shoulder. This is no major problem, however, as the solution is extremely simple. When the receiver is trued up in the lathe with the bolt center line, instead of facing the receiver face flat, simply swing the compound 45° to the right and face off the receiver using the compound. Thread the barrel with a slightly loose thread and turn the shoulder to 45°. When the barrel and receiver are screwed together, the matching angles on the shoulder will insure absolutely straight locking. The 45° angle also has the effect of giving a little wider shoulder because it is the hypoteneuse of the triangle.

If you are building a rifle that uses a recoil lug, it is no great problem to chuck

up a piece of flat stock and bore and machine the angles in one set up, which insures accuracy. The male angle should be cut large enough that the back of the recoil lug doesn't contact the receiver. When the male angle and bore are finished, a small boring bar will form the female angle. The flat stock can then be sawed or milled to shape.

This method of fitting barrels may seem unorthodox, but it saves much time and trouble and also assures one of a straight bolt and barrel lock up. This same method can be applied to any action, not just the Remington. I would also recommend leaving the last 2 or 3 inches of the barrel at 1¼" as this will allow a full width shoulder even when the barrel is set back and rechambered.

Dan Gardiner

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# THE GENESIS OF THE AMERICAN RIFLE

by  
Col. Frank H. Mayer

Editor: If any of our readers did a double take at the title of the article and author, and said "I've read that somewhere," the editor's hat is off to you; you have a heck of a memory.

The article was a landmark piece of writing, which appeared in the March and April issues of the 1936 THE AMERICAN RIFLEMAN, and which has always occupied a singular position in the editor's melodramatic heart.

Col. Frank Mayer was one of the last of the buffalo hunters, and his experiences spanned the flintlock-percussion era to the modern (1936) cartridge rifle. As his lengthy, two issue article showed . . . in spades . . . he was a man who had "been there" in the days of the settling of the nation . . . he was a man that appreciated, to the greatest possible extent, the firearms accomplishments of his counterparts and associates, the Allegheny mountaineers of a day long gone, and just about forgotten.

With the kind permission of George Martin, Executive Director of the NRA Publications Staff, we are authorized to reprint the closing portions of section two of the article . . . which is among the finest writings . . . on American firearms . . . extant in the language. If you can read it, and not be moved, or not feel a sense of nationalistic pride . . . you're a lot tougher cookie than the editor . . . who concedes that he is a softie, anyway . . .

The author talks about his growing up in the Allegheny Mountains, his observations on the pursuit of accuracy by the mountaineers . . . crude, practical men, to whom their rifle often meant either food or hunger . . . life or death. And then, at the very end, this 87 year old gentleman,

who had been "over the mountain," and who recognized that he was in the closing years of his allotted span, and perhaps a bit melancholy in his loneliness, looked back on his early days, and wrote (beautifully . . . wonderfully) the end of his article. Enjoy it with me if you will . . . gad, I wish I could write like that!

As I write, the night is full of ghosts. Sitting here in the ashes of my manhood, my mind turns wistfully back to the bagging of my first fox on the run — he was close pressed by old Abe Detweiler's hounds when I dropped him at 75 yards. And to the big white-tailed buck I hit in midair, in his third jump, on the old slash road on Boyer's flats. To my first bear, feeding on the wild raspberries in the "burn-over" below Eagle Nest's towering precipice. And the "painter" which had raided Eisenhut's hog pen, to the job of whose killing I was rather complimentarily delegated by Susie, Eisenhut's youngest daughter — whose hair was a lighter tan than even that of the big cat whose skin, with assumed nonchalance, I threw at her feet three days later. Or the fat hog I won on Thanksgiving Day of my fourteenth year, beating not only Ira Lake, Sim Ruedy, Seth Yocum, and — a miracle — even my hitherto invincible dad! And how I rode in triumph on that hog's broad back for more than two snowy miles, and had to be pried off when I reached home, for it was ten below and I was frozen fast to my first trophy won in hard-boiled competition. For one earned what he won in those days, when rifles were all shot to hit, and no favors shown. Ah, the days that were! I have won not a few trophies in stiff competition since, but beating my

dad — oh boy! Beating him — the best shot in our county — by a full sixteenth of an inch, offhand at 20 rods! That target board still hangs on the wall above his long-unused desk. He showed it proudly to every comer.

And my desk, too, will soon become unused; for I am living on borrowed time, and "the coming of Coyote," as the Ponos term it, is near. Perhaps on the other side of the Great Divide, at the end of the Long Trail, I may again meet the Old Masters who made possible the finest and cleanest of earth's sports. But until my final string is measured I will continue to stoutly affirm that the first real American rifle has not been excelled, or even equalled, in accuracy and dependability by any powder-burning weapon so far achieved by man.

After the muzzle-loaders came the heyday of the copper- and brass-cartridge rifles. Rim-fires at the outset, then pin-fires — "tit" cartridges, and ultimately the center-fires. It has been my privilege to watch the evolution of all of them. Also the evolution of the breech-loaders from primal types up to the ultra-refined rifles of today. And it has further been my privilege to use practically all of them, of both domestic and foreign make. Outstanding amongst them all are the Sharps, Remingtons, Ballards, and Bullards, together with one that is little known, the bolt-action Blake.

I was lucky enough to win, in a 20-contestant match, one of these Blakes, a "Tiger" grade in .40-70 caliber. It was a rifle *de luxe*, with beautiful appointments, fine engraving, fancy Circassian stock, smooth action, and, best of all, uncanny accuracy. Its makers guaranteed 1-inch groups at 10 yards rest, or "no sale"! While I was not sufficiently expert to make many such groups, the rifle shot well enough in my hands to bring me an



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offer of \$250 for it, at which price I sold it to the highest-ranking officer in the United States Army at the time. It was a rifle of rifles — and yet, how many of *The American Rifleman's* readers have ever seen or even heard of a Blake? After an extended experience with almost every modern rifle of these days, I stoutly affirm that not one of them is the equal, in line, finish, beauty, or accuracy of that old "Tiger Blake." I understand that there were less than five hundred made in all; but then, there is only one Cullinan diamond!

For more than half a century the rifle was literally a professional tool in my hands, and employed in several different vocations. I have used it in the taking of life and the preservation of life and today I deem it the most precious of American possessions. I am very proud of its wonderful refinement through the inventive genius of our super-skilled craftsmen, whose names are familiar wherever gunpowder is burned. And yet I cannot but bewail that very refinement, which has made of us merely a nation of rifle shooters rather than of real riflemen, as I understand the term. Today practically all the individual skill, all the inherent love for and vital dependence upon the weapon which won our national independence, have been done away with. For the rifles of today are so perfect that real skill in the judgment of range, of sighting, of trajectory; in short, real ballistic prowess, is no longer necessary. But that is not to be wondered at in an

age in which even the bread we eat daily must not only be baked by commercial bakers, but must be ready-sliced at that.

I suppose that these modern conditions are really indicative of progress, in a theoretical sense, and that I am only a pre-Victorian foggy whose old-fashioned ideas have been long outdated. However, I am stubborn enough to insist that I liked much better the obsolete old slowpokes who not only knew how to shoot their rifles with consummate skill, but knew how to *make* them as well. In those days the rifle was a tool used in the making of a nation; today it is a toy which changes with every freakish fad.

Make ye the moral; the proof lies in the fact that not more than one out of every thousand of our modern so-called expert rifle shooters can take up an old muzzle-loader, and after a full month's experience match the performance of even the average-shooting mountaineer of fifty years ago, especially if he shoots at unknown distances and under all kinds of climatic and other actual hunting or warfare conditions. With modern perfected weapons they don't need that individual skill, and, take it from me, they haven't got it!

In those days we had no textbooks on ballistics; our knowledge thereof was of the practically-worked-out cut-and-try order; and what we learned we retained. Nor were there any catalogues, and consequently no catalogue experts like most of our present-day writers. The old-timers meshed their own personal

individualities with their rifles idiosyncrasies as closely as they could, at the very outset, and did not passively accept the dictum and claims of the makers. They prosaically set about forming an intimate acquaintance with their pieces, and by long-continued and careful experiment learned just how much powder would burn in each particular barrel behind bullets of different shapes and weights; the maximum being established just below the point at which unburned grains of powder showed up on the sheet of paper spread out beneath the muzzle. The effect of different granulations was likewise determined. The necessary differences in sighting with different amounts of variously grained powder, behind different bullets, soon became known; and then there entered in to the game the unparalleled skill and common horse sense of the men behind the guns. They had neither the time nor means for indiscriminate plinking and plunking; when they shot they shot to kill; when their rifles cracked there was meat in the pot or wailing in the tepees of their foes. To the Allegheny mountaineer and woodsman his rifle was essentially a part of himself — just as crude and as deadly efficient as he was. And that combination of rifle and man has never since been equalled.

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*Our congratulations* to Raymond Brunet for winning the Louisiana State Championship Heavy Varmint class, fired at Fayette, Louisiana in March, 1983.

Raymond used a Pyro-Dux treated barrel in his victory.

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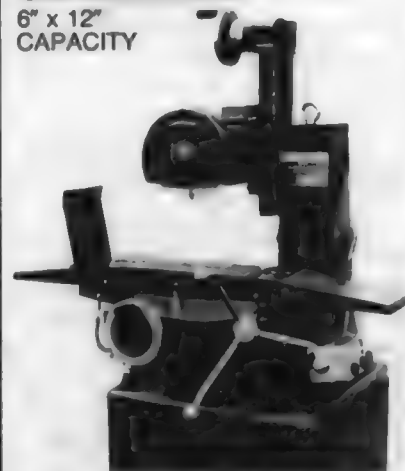
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# A Moving Backer System, Cheap

Five years ago, Southwest Louisiana Rifle & Pistol Club began its Bench Rest program with a few shooters and a lot of help from the Hub City Club, in Lafayette. As interest grew, we got bigger and better. Our Club, for all purposes, is a Hunters Club. Most of the Clubs activities were centered around their needs, since their dues were paying the bills. This is still true. We the competitors furnish most of the labor, but it's their money.

We started shooting the Hunter Class TCL Matches in the American League. As we got to shoot better we attracted new shooters who liked the way we shot. In Hunter Class shooting, you could use one of your Hunting Rifles. It wasn't long after they started that someone showed up with a custom gun. It's catching if you can afford it. As we grew, we moved to the National League. The TCL program is the stimulus for our growth.

Presently we have 7 true Bench Rest guns in the Club. Mostly we compete in Lafayette. We began last year to get ready for Bench 1983. We advertised for a motor system; this we got from Ralph Council of Houston, Texas. We studied moving backer systems everywhere we shot and finally settled on a design that incorporated the same style of Target Frames as in use for Hunter Class. Since the frames were the same, the ground supports were good also. Each frame is 10 feet long and holds 5 targets.

The Target Frames are very simple but strong. The legs are made from one inch square tubing. These legs are spanned by 2 inch Channel Iron welded 24½ inches apart, with the channels facing IN. The channels are vertically braced at several points along the span, and diagonal braces run from the legs to the lower channel. By placing the channels 24½ inches apart, you only make one cut on a sheet of plywood and fit two frames.

The Target holder and the moving Backer are made from half sheets of plywood. The Target holder sheet has holes cut in the middle to match a 200 yard target. The holes are framed on three sides like a picture frame. A 1/16th inch dado is made on the inside of the frame for the target to slide in and a staple is shot into the top of the target to stop all movement. The Backer has slots 4x15 inches at the corresponding height of the target, allowing free flight of the bullet thru the paper backer.

The Target Holder is bolted to the inside lip of the channel iron, facing the firing line. The backer frame is inserted behind, leaving 1/2 to 3/4 inch clearance between the two frames.

We had planned on using Teflon strips between the frames for spacers and minimize drag since bare wood was sliding on metal.

One day I visited a fellow shooters home workshop and he showed me a 2½ inch round Teflon rod and asked, "You got a use for this?" Later when I started assembling the frames I remembered the Teflon rod. We cut the rod into 1/2 inch wheels for the proposed spacers. I drilled 1/4 inch holes in the center to mount as spacers when it HIT ME . . . . WHEELS . . . . .

I had to then cut 3/4 inch off the top of the Backer frame, to be sure they cleared with the added height of the wheel. Before mounting the wheels to the Backer frame I countersank a hole large enough to hold a 1/4 inch bold nut flush with the side of the wheel. Here again clearance is close, be sure to brad the nut on the bolt so it doesn't back off in movement.

I attached the wheels with about 1/4 inch exposed. Each Backer frame has 4 wheels. The front wheel (direction of the pull) is 15 inches from the leading edge. The target frame is moved no more than 15 inches per relay so the reason for this placement. The rest are spaced along the frame.

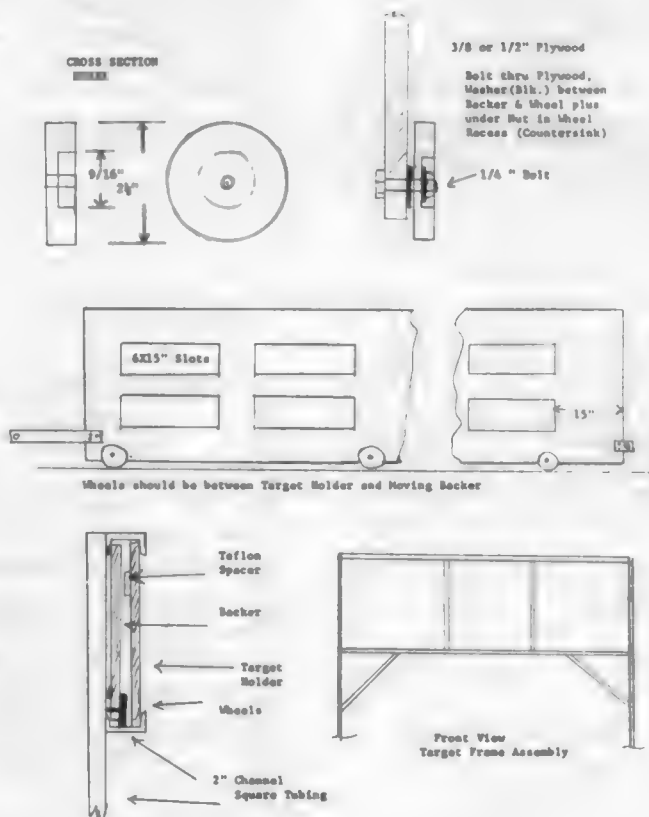
On the front edge, at the same height

all frames, I bolted a piece of 1/4 inch plate metal with a large hole clearing the plywood. This is for the cable snap. On the trailing end I bolted a piece of plate 15 inches long, with the same cable snap hole. The reason for such a long piece is to allow the Backer frame to travel 12 inches or more before the cable snaps contacted the Plywood target holder and the metal leg.

Our backer motor is a Rigid Pipe Threading Machine with two reduction gears powered from this machine. A large sprocket is mounted on the last reduction gear. It moves the Backer Frame 1 inch per minute. We had a problem with electricity so we used a portable generator. It takes a few minutes to get the slack from the cables and the helpers away from the firing line thus why 15 inches of movement is always used.

We had our first Bench Rest Match on Sept. 18, 1983 and everything worked fine. The Teflon wheels make the Backers move so easily that you can pull all 4 with one hand. Makes us think that we could have used a lighter pulling system, IF we had a-known . . . . Coon-Asses always think better from behind . . . . But it works . . . .

James Neal  
1203 California Ave.  
Lake Charles, La. 70605





# IBS News

Edited by Dave Brennan

## 1983 IBS HUNTER NATIONALS

**Council Cup  
HUNTER & VARMINT  
FOR SCORE  
September 17 & 18, 1983**

The IBS Hunter International Championships could not be held at a better time of the year. The air was cool and refreshing throughout the weekend and there was a slight rolling mirage that did not seem to dampen the scores of most. The turnout of 33 hunter shooters was somewhat disappointing at such an established range but it represents a recent trend in the attendance level at such shoots. The total attendance including Varmint for score shooters was 54 on Saturday and 53 on Sunday. I wish to extend a thank you to all of those who helped — I dare not list the names here for fear of inadvertently leaving someone out.

The hunter competition was paced by Alan Euber on Saturday with a 250-15X. Mike Williams brought up a close second with a 250-14X. Mike actually had Allie going into the last target when Allie pulled through with a 50-4X compared to Mike's 50-3X. There were a total of seven 250's fired in hunter competition — a significant change in this class of competition. The 200 yard stage showed very tight competition with Bill Theis, Ed Starzinski and Allie Euber going into the last target down only two points. All three of them managed to drop a crucial point on the last target thereby ending up with 247's. Actually Bill and Ed were tied on X count going into that final target and both of them emerged with a score of 247-4X. The tie was broken by Creedmore and Ed Starzinski was anointed winner. The grand aggregate tally found Alan Euber in first place with a 497-18X and Ed Starzinski in second place with a 497-10X. The other standings can be found on the following pages.

The Heavy Varmint for score competition was led by Jeanne Lynn at the 100 yard stage with a fine 250-2X. There were a total of 13 varmint shooters with

scores of 250. Creedmore was used in 10 of the top 13 places to break ties — close shooting. The two hundred yard stage found three new HV records and two new LV records. Brian Rubright emerged as the winner with a 249-5X (LV), second place went to Gary Ocock with a 250-4X (HV), third place went to Carl Lynn with a 249-3X (HV), fourth place went to Tony Margelewicz with a 249-2X (HV), fifth went to Jim Borden with a 247-10X (HV), and sixth place went to Jeanne Lynn with a 247-2X, and finally the last record went to Bill Gebhardt with a 246-2X. The grand aggregate was garnered by Carl Lynn with his third place finish at both ranges

## IBS Memo

### IBS Targets — Charter and Life Members

100 or 200 yard benchrest targets are \$24.30 per 500. 300 yard benchrest targets are \$24.30 per 500. 100 yard hunter targets are \$19.00 per 250. 200 yard hunter targets are \$20.00 per 250.

All target orders, as usual, are figured with a 10% discount for affiliated clubs, plus shipping charges.

Mail order to: Evelyn Richards, 411 N. Wilbur Ave., Sayre, Pa. 18840.

The annual membership fee is \$20.00 — Life membership in IBS has been set at \$125. Apply to the recording secretary for enrollment. IBS Affiliated Club Membership \$20.00.

New rule books now available, with minor changes — plus IBS By-Laws at \$1.00 per copy.

IBS Charter Membership Patches and regular patches are available at \$2.00 each.

When ordering **Charter Membership patches**, please indicate your 1970 Card Number.

and a new HV Record of 499-21X. The other scores are listed elsewhere in this report.

Submitted by  
Jim Borden



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## MASTER CLASS RESULTS

### 100 Yards

1. Alan Euber 250-15X
2. Mike Williams 250-14X
3. Carl Peters 250-12X
4. Linda Hammonds 250-11X
5. K.L. Miller 250-11X
6. George Schuckers 250-10X
7. Ed Starzinski 250-6X
8. Gary Long 249-13X
9. Willie Sahler 249-13X
10. Bernie Williams 249-10X
11. Paul Olewine 249-8X
12. Dennis Collins 249-8X
13. Bill Theis 248-13X
14. Chuck Loeb sack 248-11X
15. Bill Creasy 248-8X
16. Robert Linn 247-9X
17. Richard Person 249-8X
18. Todd Fritz 247-2X
19. Tony Hidalgo 246-14X
20. Randy Fritz 246-12X
21. Vince Pastorella 246-11X
22. Arnold Halye 246-11X
23. Eric Euber 246-10X
24. Jim Zeyn 246-4X

### 200 Yards

1. Ed Starzinski 247-4X
2. Bill Theis 247-4X
3. Alan Euber 247-3X
4. Linda Hammonds 246-3X
5. George Schuckers 245-5X
6. Terry Wagner 245-1X
7. Mike Williams 244-6X

### Grand Aggregate — Master

1. Alan Euber 497-18X
2. Ed Starzinski 497-10X
3. Linda Hammonds 496-14X
4. Bill Theis 495-17X
5. George Schuckers 495-15X
6. Mike Williams 494-20X

## HUNTER RESULTS

### 100 Yards

1. Ed Larson 245-9X
2. Randall Fritz 247-7X
3. Helen Long 244-5X
4. Steven Weddle 244-3X
5. Bob Antonelli 242-6X
6. Richard Pryor 241-6X

### 200 Yards

1. Paul Olewine 242-6X
2. K.L. Miller 242-5X
3. Randy Fritz 242-1X
4. Bernie Williams 241-3X
5. Randall Fritz 240-2X
6. Arnold Halye 239-4X

7. Gary Long 239-3X
8. Willie Sahler 239-3X
9. Robert Linn 239-2X
10. Bill Creasy 239-2X
11. Eric Euber 238-4X
12. Vince Pastorella 238-3X
13. Chuck Loeb sack 237-2X

### Hunter Grand

1. K.L. Miller 492-16X
2. Paul Olewine 491-14X
3. Bernie Williams 490-13X
4. Gary Long 488-16X
5. Willie Sahler 488-16X
6. Randy Fritz 488-13X
7. Bill Creasy 487-10X
8. Carl Peters 486-13X
9. Robert Linn 486-11X
10. Arnold Halye 485-15X
11. Chuck Loeb sack 485-13X
12. Randall Fritz 485-9X
13. Eric Euber 484-14X
14. Vince Pastorella 484-14X

## MARKSMAN RESULTS

### 100 Yards

1. Ed Longo 238-4X
2. Brad Ermish 232
3. Frank Coviello 224

### 200 Yards

1. Ed Larson 236-3X
2. Bob Antonelli 236-2X
3. Helen Long 236-2X
4. Carl Peters 236-1X
5. Jim Zeyn 235-3X
6. Richard Pryor 235-1X
7. Dennis Collins 231-1X
8. Steve Weddle 231-1X
9. Tony Hidalgo 228-1X
10. Ed Longo 225
11. Todd Fritz 217-2X
12. Brad Ermish 215-1X
13. Frank Coviello 209

### Marksmen Grand

1. Dennis Collins 482-9X
2. Ed Larson 481-12X
3. Jim Zeyn 481-7X
4. Helen Long 480-7X
5. Bob Antonelli 478-8X
6. Steve Weddle 477-4X
7. Richard Pryor 476-7X
8. Tony Hidalgo 474-15X
9. Todd Fritz 464-4X
10. Ed Longo 463-10X
11. Brad Ermish 447-1X
12. Frank Coviello 433
- Richard Person DNF

## VARMINT

### 100 Yards

1. Jeanne Lynn 250-21X
2. Roger Gower 250-18X
3. Carl Lynn 250-18X
4. Bart Weider 250-17X
5. Walt Malinski 250-16X
6. Jack Herring 250-16X
7. Jim Borden 250-16X
8. Gary Ocock 250-16X
9. Bill Gebhardt 250-14X
10. Roger Rutkowski 250-14X
11. Larry Hertzog 250-14X
12. Richard Grosbier 250-14X
13. Brian Rubright 250-13X
14. Dan Razzier 249-15X
15. Eugene Davis 249-11X
16. Clarence Hammonds 249-11X
17. Charles Wagner 249-10X
18. David Davis 249-10X
19. Tony Margelewicz 248-14X
20. Bob Sahler 247-3X
21. Joe Borden DNF

### 200 Yards

1. Brian Rubright 249-5X
2. Gary Ocock 249-4X
3. Carl Lynn 249-3X
4. Tony Margelewicz 249-2X
5. Jim Borden 247-10X
6. Jeanne Lynn 247-2X
7. Bill Gebhardt 246-2X
8. Roger Gower 244-5X
9. Larry Hertzog 244-4X
10. Joseph Borden 244-3X
11. Charles Wagner 244-2X
12. Richard Grosbier 243-7X
13. Clarence Hammonds 242-7X
14. Dan Razzier 240-2X
15. Bart Weider 238-4X
16. Walt Malinski 238-1X
17. Jack Herring 231-2X
18. Roger Rutkowski DNF
19. Bob Sahler DNF

### Varmint Grand Aggregate

1. Carl Lynn 499-21X
2. Gary Ocock 499-20X
3. Brian Rubright 499-18X
4. Jim Borden 497-26X
5. Jeanne Lynn 497-23X
6. Tony Margelewicz 497-16X
7. Bill Gebhardt 496-16X
8. Roger Gower 494-23X
9. Larry Hertzog 494-18X
10. Richard Grosbier 493-21X
11. Charles Wagner 493-12X
12. Clarence Hammonds 491-18X
13. Dan Razzier 489-17X
14. Barton Weider 488-21X
15. Walt Malinski 488-17X
16. Jack Herring 481-18X
17. Roger Rutkowski DNF
18. Joseph Borden DNF
19. Bob Sahler DNF



Allie Euber. Allie now has completed his collection. He has won each of the major IBS Championships — LV, HV, HB, SP and Hunter Master.

Photo by Tony Margelewicz

## SPECIAL AWARDS

Best Grand Aggregate fired with a Hunter gun with a case capacity of 30-30 or larger (Sponsored by J. Borden; S. Masker; R. Gower) — Willie Sahler 488-16X

Most X's - Hunter — Mike Williams 20  
Most X's - Varmint — Jim Borden 26  
Varmint 100 Warmup — Carl Lynn 50-5X

Varmint 200 Warmup — Clarence Hammonds 50-2X

## RESULTS — MATCH WINNERS

### 100 Yards

WU - Willie Sahler 50-5X  
M1 - K.L. Miller 50-4X  
M2 - Willie Sahler 50-5X  
M3 - Alan Euber 50-5X  
M4 - Randy Fritz 50-4X  
M5 - Bill Theis 50-5X

### 200 Yards

WU - Linda Hammonds 50-3X  
M1 - K.L. Miller 50-3X  
M2 - Linda Hammonds 50-2X  
M3 - Vince Pastorella 50-1X  
M4 - Bill Theis 50-2X  
M5 - Helen Long 50-2X

## South Creek

The second match of the South Creek winter matches was held on November 20, and 30 shooters looked out their bedroom windows, saw reasonable weather, and headed for the range. The grand agg rankings were: (1) Jeff Stover, .2760; (2) Art Blensingher, .2968; (3) George Stickler, .3208; (4) Walt Malinski, .3362; (5) Ed Starzinski, .3598; and (6)

Wendell Coye, .3634. Small group was Wendell Coye's little .065 screamer.

Okay, what a difference a couple of weeks makes. On December 4, the same 30 shooters got out of bed, looked out the window, and saw rain, sleet, and blasts of wind-driven freezing rain. Fourteen of them said (well, never mind what they said; this is supposed to be a family publication), and went back under the blankets. The other sixteen demented souls showed up at the range . . . and were promptly made honorary members of the Tri-County Gun Club out in Oregon, who do this sort of thing all the time. It was a wonderful day, dear reader; you would have loved it. There were only four groups fired under .300 all day; Paul Kempfer had two of the four, and since he didn't make the top six, Paul's other three groups must have been (well, let's not go into that . . . family publication, etc., etc.). Top six were: (1) Floyd Stohner, .3812; (2) Joe Borden, .4100; (3) Jim Borden, .4250; (4) Bill Theis, .4280; (5) Skip Ames, .4438; and (6) George Stickler, .4540. Small group was Paul Kempfer's .205, which we refuse to categorize as "a screamer".

Since a pretty good group of shooters hang out at the South Creek winter matches . . . and since a .4540 took sixth place . . . I suspect that a number of wives, greeting sleet-covered husbands coming through the door that night said, "how did it go, dear?", and were given only a frosty response (little play on words there, in case you missed it).

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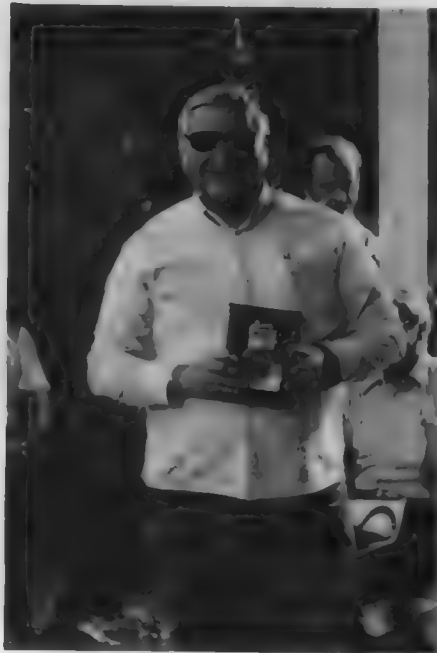
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# 1983 IBS HUNTER NATIONALS

PHOTOS  
BY TONY MARGELEWICZ



Another view of The Champ.



Second place, Ed Starzinski, Hunter Master Class.



Linda Hammonds, third place, Grand Agg, Hunter Master Class.



Mike Williams, second at 100 yards, Hunter Marksmen Class.



Ed Larson, first at 100 yards, Hunter Class.



K.L. Miller, Grand Agg winner, Hunter Class.



**Carl Peters, Markeman Class.**



**Roger Gower, first hunter class shooter to win the Precision Rifleman award.**



**Carl Lynn, first in grand Agg, varmint for score.**



**Gary Ocock, second at 200 yards, second in Grand, varmint for score.**



**Brian Rubright, first at 200 yards, third in Grand, varmint for score.**



**Carl Lynn, Grand Agg winner, with Jeanne Lynn, 100 yard winner, varmint for score.**

# IBS CIRCUIT SCRAPBOOK

PHOTOS BY LIZ BRENNAN



**FASSETT:** "Let's not even bother weighing that one. It just LOOKS overweight to me."



**Art Battisto, Ed Joiner, Bob White and Glenn Newick load furiously, while Jerry Masker attempts to stab a rattlesnake that he has found in his loading box.**



**Hey Dad, I found a primer, but it has a little round dent in it. Do you want it?**



**Jerry Hart, who, as you can see, is carefully cleaning his case necks with Pepsi.**



**Noted IBS competitor, trying to: A) escape the Fasset heat, B) forget his last group.**



I'm sorry, the Best Legs Contest is by advance registration only, no late entries accepted at the range.



"I hope he doesn't fire another confounded rotten group. I never get petted when he's doing lousy.



I wonder if whatever is in that paper bag is anything I could eat . . . or at least chew on?



Glenn Price, Jim Meyer, John Ventriglia and Donalee Price discuss lettered tee-shirts, head-bands, mustaches and bad groups.



Alert! Alert! We believe that we have a flasher somewhere on the grounds! The police have been called . . .



# NBRSA News

Edited by Dave Brennan

## "1983 NBRSA ANNUAL MEETING"

The annual Board of Directors meeting was called to order by President Tom Metzger at 9:11 AM on Sunday, July 24, 1983 at the Best Western Motel in Midland, Texas. In attendance were:

Tom Metzger, President; Walt Berger, Vice President; Stella Buchtel, Secretary-Treasurer; Stan Buchtel, Eastern Region Director; Howard Dietz, Gulf Coast Region Director; Ron Hoehn, Mississippi Valley Region Director; Don Creach, Mid-Continent Region Director; Lee Euber, Northeast Region Director; Mike Prokosch, North Central Region Director; Gene Harwood, Northwest Region Director; Ed Watson, Southeast Region Director; Dennis Thornbury, Southwest Region Director; Jim Folwell, Northwest Associate Director; Manley Oakley, Former Northwest Region Director.

Each board member introduced himself and stated what region he represented. The Annual Treasurer's Report was distributed for review and comments. A motion was made by Howard Dietz to accept the Treasurer's report as presented, Mike Prokosch seconded the motion and the motion passed unanimously. Report to be filed for Audit.

The 1981-82 Audit prepared by Lukuch and Associates was read by Tom Metzger and passed for directors review and comments.

Membership report was distributed and discussed.

A discussion was held on holding Board Meeting before the annual membership meeting. Tom gave his views on the subject and stated that members he had heard from think the Board Meeting should be held after the membership meeting and that he agreed with them. Tom read from the By-Laws that Officers are elected at the annual meeting by the Board of Directors and are to serve at the will of the Directors. This By-Law was read to clarify his position on any action he may take in any given situation and to be made a part of the minutes just for the record. He further stated that Directors

are to know what the membership of their region want and are to represent them at the Directors Meeting.

A lengthy discussion was held on National Championship Match format. Six days as have been done for the two year trial or revert back to separate Varmint and Unlimited Nationals. The two year trial showed a definite increase in the Unlimited Class participation as well as overall attendance. After the discussion the Directors were asked what their membership want. The following were their replies.

Ed Watson, For Six Day National; Ron Hoehn, For Six Day National; Dennis Thornbury, For Six Day National; Gene Harwood, For Six Day National; Howard Dietz, Region split to the point where they would like to go to 3 gun and 2 gun but do like a one week National. They do not like the endurance test; Stan Buchtel, Unlimited Shooters would like to go back to 4 day Unlimited and Varmint Shooters would like 2 gun or 3 gun; Mike Prokosch, For Six Day National; Don Creach, Unlimited Shooters would like to revert back, Varmint shooters like the Six Day National; Lee Euber, For Six Day National.

Walt Berger then made his comments. Thinks 6 day format should be retained, two weeks is also an endurance contest. Further stated that you can forget the Unlimited Class if we go back to a 2 week National. When Unlimited was separated only 30 - 50 shooters participated. In the past two years participation has doubled. He also stated that he feels economics is a big factor in six days vs. 2 weeks; motel bills, gasoline, food, etc. He further stated that changing classes was not the issue at this time. Our decision must be to weigh the results of the two year trial Six Day National and decide whether or not it should be continued. The people attending Nationals every year should be the people to decide how Nationals would be held. The fact is that no matter where the Nationals are held you would draw more shooters from the immediate area

than from one coast to the other coast. Few clubs have the facilities to handle a National Match. More clubs are to be encouraged to offer bids. Directors have always honored National bids. Midland is a good example. There were some requirements to be met. They met them. A club has to want to hold Nationals for them to be successful.

Stan Buchtel stated that although not originally for the Six Day National, and his region is divided into segments, he feels it was the best thing that happened to the attendance for Big Gun. While we lost a few shooters, we gained a lot more.

Don Creach then made a motion to retain the Six Day National. Ed Watson seconded, stating that if the membership did not agree another meeting would be held. All directors agreed to this statement. Howard Dietz stated he felt the general membership is important. We need to listen to them. Each vote taken around the table individually resulted in all the directors being for the Six Day National.

Walt expressed thought on making changes and emphasized that we need to be real careful about making any changes.

Agenda items were presented by each director as submitted to Tom Metzger, prior to the meeting, for Board discussion.

Howard Dietz asked that possible record targets be measured by Regional Director before sending to Measuring Committee Chairman and that the Measuring Chairman double check measurement before sending to other directors for them to measure. In the past year many targets had been sent around for measurement that were not even close to being a world record. Ed Watson stated that he feels director should submit targets to the Measuring Chairman. Howard Dietz stated that range officer should be trusted in his approval of record target to be submitted for possible world record. Stan Buchtel stated that the rules were created over a

period of time and that no one should handle targets or backers except directors and Measuring Chairman. Directors will check and forward possible record targets as in the past.

Howard Dietz wanted to freeze all five shot records shot with Unlimited Rifle. He feels that Unlimited guns should shoot 10 shot groups and 10 shot groups only for world records. Ed Watson then made a motion to retain 5 shot group, Mike Prokosch seconded. All voted for this except Stan Buchtel who abstained and Howard Dietz.

Howard Dietz asked to increase Hunter Rifle matches from 5 matches per yardage to eight matches per yardage, i.e. as is being done with Unlimited Rifle. This item was tabled and will be submitted to a Hunter Class Committee.

Howard Dietz asked that NBRSA furnish attendance patches and location bars for Hunter Rifle Nationals, which are now being furnished by Steve Gibbons. Stan Buchtel made a motion for NBRSA to purchase these patches. Dennis Thornbury seconded and motion passed unanimously.

Howard Dietz suggested that we let ranges bid dates on National Matches as to weather conditions prevailing in their local. This is already in effect, but not stated in the rulebook.

Howard Dietz made a motion to add to rule book Page 9 - National Championship Matches to be held last week of July. "If a date variance is desirous it should be submitted two years in advance to the directors, along with their bid, for Director approval." Ed Watson seconded and motion passed unanimously.

Tom Metzger appointed a rule book committee of three to update rule book; Stan Buchtel, Chairman; Howard Dietz and Ed Watson. Update to be submitted to President for final approval before new rule book is printed.

Mike Prokosch referred to Page 7, Item 7 - "Approval of Tournament Dates" of the rule book and asked that we eliminate "No date for a Registered Tournament may be approved if within 7 days of the first day of a National Championship match, unless approved by the President." He was advised that directors can request permission and permission will be granted if match is to be held in a part of the country that will not affect a National Match attendance. No change in the rule book is to be made as the present rule covers this situation.

Mike Prokosch referred to Page 11, Item 4 of the rule book "Disqualifications and Penalties", and asked that rule be changed to agree with one minute of

angle rule for required number of shots (Pg. 12, Item 14 (c). Mike made a motion to change rule book from a quarter minute of angle to one minute for each shot. Ed Watson seconded the motion and motion passed with Stan Buchtel against.

Mike Prokosch brought up a request for definition of target mounts for hunter class. This was tabled and will be handled by Hunter Committee.

Mike Prokosch asked for a modification of target and submitted an illustration. After some discussion Tom Metzger appointed a committee on Targets to review paper, etc. with Mike Prokosch as Chairman; Ed Watson, Gene Harwood and Steve Gibbons as committee members.

Mike Prokosch made a motion to add to rule book Page 13, Item E (1) "Occupancy of Benches" that "No competitor shall leave the bench until the Range Officer commands "Cease Fire. Remove your bolts. Clear the benches." This motion died for lack of a second as it is already covered in the rule book in "Sportsman like conduct". Range officer is to enforce this issue.

Ed Watson made a motion to change Unlimited Nationals course of fire to five ten shot matches 100 yards and five 10 shot matches at 200 yards. Mike Prokosch seconded the motion. A show of hands indicated Gene Harwood, Ed Watson and Howard Dietz were in favor of change. Dennis Thornbury abstained, rest of the directors were against the change. Motion did not pass and is to be brought up at the general membership meeting.

Dennis Thornbury asked for a discussion on sand bag rule. Discussion resulted in no change being made.

Dennis asked if computer mailing labels could be purchased by regions. He was advised that it would be possible but program would have to be amended as labels are not being provided by zip code or alphabetically for entire membership.

Dennis also asked about rotating benches after each yardage instead of after each match. It was felt changing after each match is an equalizer and this will remain the same.

Gene Harwood stated a problem occurred in his region on removing targets from the range that were possible world records and a discussion followed. Rule book covers this procedure. Gene has been requested to submit a procedure for handling world record targets. He submitted to Tom Metzger a copy of the procedures used in his region.

Stan Buchtel made a motion to change group measurement protest rule from

.020" to .009" and increase protest fee from \$3.00 to \$5.00. Howard Dietz seconded. Five were for this change, three against and Ed Watson abstained. Motion passed.

Stan Buchtel asked for Board Approval on IBS-NBRSA reciprocal cards and that it be recorded in the minutes. The motion was seconded by Ron Hoehn and motion passed unanimously.

Stan Buchtel made a motion to change classes at Nationals to Unlimited, 13½# and 10½# with two days for each class. Motion died for lack of second.

Stan Buchtel asked for a better definition of 3 minute warm up rule. Discussion on use of this rule in various regions took place. No change in the rule to be made.

Stan Buchtel made a motion to change term of President and Vice President from one year to two years and the secretary and President be alternate years so that officers are not all new at the same time. Gene Harwood seconded and motion passed.

Stan Buchtel made a motion that Board authorization of payments to President, Measuring Committee Chairman, Editor and Secretary be placed on the agenda each year for verification and authorization so recorded in the minutes for audit purposes and that approval for 1984 payments be authorized to be paid the same as 1983. Don Creach seconded the motion and motion passed unanimously.

Stan Buchtel made a motion that 3 referees and an alternate referee be selected for each class. Ed Watson seconded and motion passed unanimously.

Stan Buchtel read a letter he had received from Skip Gordon regarding Hall of Fame. A discussion followed, including steps to be taken to get two organizations together again. Stan is to respond to Skip's letter advising him it has been discussed at the Board meeting.

Tom Metzger asked that By-Laws be amended to cover "Directors to approve appointment of Editor, Measuring Committee Chairman, and Hall of Fame Chairman annually. This was put into a motion and the motion passed unanimously.

Gene Harwood read a letter from Jim Farley. He will respond to Jim's letter advising that the Board has no intention of changing Hunter Class rules at this time.

Mike Prokosch was appointed Chairman of a Hunter Class committee and each Director is to appoint a Hunter Class shooter in his Region to this committee.

*Continued on next page*

## 1983 NBRSA ANNUAL MEETING

*Continued*

Annual meeting date was discussed again. Howard Dietz made a motion that meeting be held the day following the last day of the Unlimited-Varmint Nationals. Ed Watson seconded the motion. Stan Buchtel abstained. The other eight directors agreed. Motion passed.

Bids were submitted for 1985 Nationals. For Unlimited and Varmint 6 Day National Howard Dietz bid for Midland Range; Stan Buchtel bid for Kelbly's Range. Voters were Ron Hoehn, Dennis Thornbury, Don Creach, Mike Prokosch, Howard Dietz and Gene Harwood for Midland; Stan Buchtel, Ed Watson and Lee Euber voted for Kelbly's Range. The 1985 Unlimited-Varmint Nationals were awarded to Midland.

Bids for the 1984 Hunter Nationals were made only by the St. Louis Bench Rest Rifle Club by Ron Hoehn. 1984 Hunter Nationals were awarded to St. Louis.

Election of Officers was held. Stan Buchtel nominated Tom Metzger for President. No further nominations, Howard Dietz moved that nominations be closed and that Tom Metzger is President by acclamation.

Don Creach nominated Walt Berger for Vice President. No further nominations, Howard Dietz moved that nominations be closed and that Walt Berger is Vice President by acclamation.

Tom Metzger stated that his efforts for the coming year would be to work with Jim Borden, President of IBS, to come up with a 5 point plan to get the two organizations back together.

Howard Dietz made a motion to adjourn the meeting Gene Harwood seconded and motion passed. Meeting was adjourned at 3:23 PM.

Stella Buchtel  
Secretary-Treasurer

Approved  
Thomas Metzger

## Lafayette

There were 18 shooters in the heavy varmint class match at the Hub City range in Lafayette, Louisiana on September 10.

Don Geraci had an average day at 100 yards, groups of .190, .192, .132, .185, and .186 . . . they gave him a trophy, and asked him to go away. 100 yards: (1) Don Geraci, .1770; (2) Rusty Fung, .2052; (3) Louis Langlinais, .2368; (4) Thomas Parten, .2638; (5) Gary Vincent, .2646. Small group, Don Geraci's .132. After that blow out, some fainter hearts just wanted to give Mr. Geraci the 200 yard trophy, and save a lot of trouble . . . they finally decided to shoot it, and surprise, surprise . . . (1) Jimmy Broussard, .2388; (2) Charles Mills, .2578; (3) James Toeppich, .2662; (4) Mike Guillot, .2791; (5) Marcy Lyons, .2877. Small group, Charles Mills .286. What happened to The Cajun? Well, while he was shooting 200 yard groups of .654, .820, .622, .676, and .344, Mr. Broussard was shooting groups of .375, .398, .544, .586, and .485. Don didn't even make top six . . . but notice one little thing . . . that last Geraci group . . . he was sinking fast, and needed a good one to pull the fat out of the fire . . . and that's just what he did! Grand agg: (1) Don Geraci, .2443; (2) Jimmy Broussard, .2575; (3) Charles Mills, .2658; (4) Thomas Parten, .2775; (5) Rusty Fung, .2807. Don Geraci of Metairie, Louisiana fired a 6PPC, sleeved 700 action, McMillan barrel, Leupold 36X scope, 26.5 grains of H322 (a mild load for the gentleman), Euber 68 grain bullets in a rifle smithed by Bob Brackney and Dale Hutcherson, and stocked by Brackney.

On the following day they held the Louisiana State Hunter Class Championships, and since there is very little interest in this class in Louisiana, only 27 shooters showed up. A few of the novices shot fairly well, and said they might try the class again some other time.

At 100 yards there was sort of a mob

scene with good scores, but it was former National Champ, Marcy Lyons winning it by X-count: (1) Marcy Lyons 250-14X; (2) Don Gardiner 250-10X; (3) Richard Milton 250-10X; (4) Weldon Laviolette 249-12X; (5) Mike Guillot 249-8X; (6) E. M. Baggett 248-9X. At 200 yards, current National Champ, Richard LeBlanc put a little daylight into the spacings between places, with a nice 248-13X, followed by: (2) Russel Waterman 246-14X; (3) Guy Chism 243-12X; (4) Mike Guillot 243-89X; (5) Eric Matherne 242-14X; (6) Rusty Fung 242-12X. In the grand agg, the 200 yard score carried it off: (1) Richard LeBlanc 495-23X; (2) Mike Guillot 492-16X; (3) Weldon Laviolette 490-22X; (4) Russel Waterman 489-22X; (5) Dan Gardiner 488-20X; (6) Guy Chism 488-15X. Grand agg winner, Richard LeBlanc of Breau Bridge (we will not mention the state; this fellow got me in a lot of trouble a few months back) fired a 6HLS, Remington 700 action, McMillan barrel, Lyman 6X scope, 34.0 grains of H4895, Metzger 70 grain bullets, in a rifle smithed and stocked by Bob Brackney.

## Cedar Rapids

A modest little match on September 11 at the Cedar Rapids Benchrest Club range, with seven shooters firing light varmint and heavy varmint classes at 100 yards only. Light varmint class: (1) Ed Kvarda, .327; (2) Ed Cabor, .344; (3) William Leer, .348. Small group, John Moschkau's .150. In heavy varmint class: (1) Ed Cabor, .241; (2) Milton Duvel, .291; (3) Ed Kvarda, .306. Small group, Ed Kvarda, .168. In the two-gun agg: (1) Ed Cabor, .292; (2) Ed Kvarda, .316; (3) Milton Duvel, .324. Multi-gun agg winner, Ed Cabor of East Moline, Illinois fired a 6PPC, Hall action, Hart barrel, Lyman-Siebert 30X scope, .26.0 grains of H103 powder (?), behind his own 68 grain bullets, in a rifle smithed and stocked by himself.

The results of the voting at the Annual Membership Meeting-Midland, Texas-July 29, 1983.

	FOR	AGAINST
1. Annual Directors' Meeting to be held after Annual Members' meeting.	89	0
2. Unlimited Nationals-Continue with 8-10 shot matches each distance.	44	36
3. Continue with Nationals as is-all guns in 6 days of same week.	78	14
4. Continue to shoot all 4 classes at Nationals.	77	19
5. Approval of 4-Gun Awards-Trophies, Patches and H.O.F. points.	86	0
6. Change Windflag Rule: Flags to be below line sight (straight line) from top of bench to bottom of target.	49	16

Thomas Metzger  
NBRSA President

## Greenville

Forty-seven shooters from nine states showed up at Greenville for the South Carolina State Championships on October 1 and 2. When it was all over, Tony Boyer of Keezletown, Virginia had not won a single one of the four classes, but a fourth place finish, together with a third, and two second places was enough to send the prestigious four gun trophy back to Keezletown . . . where a lot of good-sized trophies went in 1983.

All three of the varmint classes were tightly contested. In light varmint, it was: (1) Brian Stockwell, .1862; (2) Jim Griffin, .1872; (3) Tony Boyer, .1946; (4) Ed Watson, .2260; (5) George Javo, .2408; (6) Nick Young, .2504; (7) Jeff Summers, .2598; (8) Nat Birtchett, .2600; (9) Danny Regans, .2650; (10) James Messer, .2694. Small group went to Jerry Shelton's .114. The agg winner, Brian Stockwell of Greenville, South Carolina fired a 6PPC, XP-100 action, McMillan barrel, Lyman-Siebert 30X scope, and a case full of 748 powder behind 65 grain Watson bullets, in a rifle smithed by McMillan, and stocked by McMillan.

Heavy varmint class found another brawl for the top spot: (1) Ed Pennebaker, .2538; (2) Herman Wright, .2570; (3) Nick Young, .2596; (4) Tony Boyer, .2600; (5) Jim Griffin, .2730; (6) Jack Yeatts, .2740; (7) Ed Watson, .2894; (8) J. D. Stamper, .2918; (9) Larry Earp, .2962; (10) Kenny Jarrett, .3046. Small group was a .160 by Herman Wright. Ed Pennebaker of Greenville fired a 6PPC, 40X action, Pyro-Dux Hart barrel, Leupold 24X scope, and a case full of H322 powder behind Watson 62.5 bullets, in a rifle smithed and stocked by Kenny Jarrett.

The sporter class rankings went: (1) Kenny Jarrett, .2258; (2) Tony Boyer, .2358; (3) Herman Wright, .2376; (4) Jim Griffin, .2394; (5) Ed Pennebaker, .2406; (6) Jerry McFall, .2424; (7) Jack Yeatts, .2494; (8) Danny Regans, .2522; (9) Gene Baxter, .2588; (10) Jeff Summers, .2592. Small group went to Fred Hasecuster for his .122. Kenny Jarrett of Jackson, South Carolina shot a 6PPC, sleeved Remington action, Hart barrel, Lyman-Siebert 30X scope, a load of 28.0 grains of 4198, Watson 62.5 grain bullets, and his own smithing and stockwork.

In the five-shot unlimited class, we had the only winner with a reasonable amount of daylight between himself and the second place finisher: (1) Ed Watson, .1912; (2) Tony Boyer, .2352; (3) Ed Pennebaker, .2396; (4) Dr. Jud White, .2858; (5) Jim Griffin, .2866; (6) Ted Manning, .2876; (7) Meredith McNair, .2894; (8) George Javo, .3034; (9) Jerry

McFall, .3128; (10) Jack Canupp, .3150. Small group was Ed Pennebaker's .106. Ed Watson of Greenville fired a 6PPC, Hall action, Hart barrel, Redfield 28X scope, 25.5 grains of 4198 behind his own 62 grain bullets, in a Bill Hall rail gun, with smithing by Harold Broughton.

In the four-gun agg, it was thus: (1) Tony Boyer, .2314; (2) Jim Griffin, .2465; (3) Ed Watson, .2549; (4) Ed Pennebaker, .2700; (5) Kenny Jarrett, .2818; (6) Nick Young, .2876; (7) George Javo, .2881; (8) Herman Wright, .2903; (9) Ted Manning, .2914; (10) Jeff Summers, .2922.

Ed Watson made an interesting equipment survey of the 180 entered guns, and some of it might be of interest to our readers:

In "caliber", there were 131 shooters of the 6PPC, and 17 shot the .22PPC. There were 10 users of the 6x47, 10 shot the .222 Remington, 8 the 6-T, 3 the .240 Coyote, and 1 the .220 Coyote.

In "actions", there were 141 Remingtons, 22 Halls, 9 Shilen, 5 Stolle, 2 Harts, and 1 B.R.A.

In "barrels", there were 63 Hart, 62 McMillan, 26 Sherer, 12 Shilen, 10 Remington, and 7 Atkinson.

In "scopes", there were 116 Leupold, 6 Leupold-Siebert, 9 Lyman, 44 Lyman-Sieberts, and 5 Redfields.

Gunsmith count was: Joines - 29, Coffey - 19, Broughton - 16, Jarrett - 16, Sinclair - 16, Pindell - 10, McMillan - 7, Remington - 6, Schimpf - 6, Stamper - 6, Takano - 5, others - 17.

Powder count was: Hodgdon - 133, Dupont - 33, Winchester - 9, Norma - 5.

Bullet count: Watson - 77, Messer - 19, Beck - 12, Young - 9, Earp - 8, Euber - 8, Yeatts - 8, Berger - 6, Coffey - 4, Cutsinger - 4, Remington - 3, own, and others - 22.

## St. Louis

A hunter class match on September 18 at the St. Louis Benchrest Rifle Club, with eleven entries.

At 100 yards: (1) Wm. Waldrop 249-6X; (2) Dan Jarvis 247-8X; (3) Wayne Corley 247-6X. At 200 yards: (1) Clark Greene 244-9X; (2) Wayne Corley 243-12X; (3) Dan Jarvis 233-5X. Grand agg: Wayne Corley 490-18X; (2) Clark Greene 485-12X; (3) Dan Jarvis 480-13X. Wayne Corley of St. Charles, Missouri fired a .308, Remington action, Hart barrel, Lyman 6X scope, 41.8 grains of BL32 powder, Sierra 168 grain bullets, in a rifle smithed by Freund, and stocked by O. T. Hodges.



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# NBRSA MATCH SCHEDULE

## EASTERN REGION

**CAMILLUS SPORTSMEN'S CLUB**, Camillus, New York. Contact: Hank L. Gonnella, 420 Hawley Avenue, Syracuse, NY 13203. (315) 474-1746.

**CHIPPEWA COUNTY SHOOTING ASSOCIATION**, Sault Sainte Marie, Michigan. Contact: Joseph Haller, Rt. 1, Box 117, Nicolet Road, Sault Sainte Marie, MI 49783.

**CHIPPEWA RIFLE CLUB**, Easton, Ohio. Contact: Mildred Spencer, 3016 Melv Drive, Barberton, OH 44203.

**FAIRCHANCE GUN CLUB**, Smithfield, Pennsylvania. Contact: Royce P. Leckemby, Rt. 2, Box 21, Smithfield, PA 15478 (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

**FAIRFIELD SPORTSMAN'S CLUB**, Fairfield, Ohio. Contact: Jay Fouts, 803 Cleveland Avenue, Hamilton, OH 45013. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

**HOLTON GUN AND BOW CLUB**, Holton, Michigan. Contact: Theodore Geldater, Jr. 3369 Woolkes Street, Muskegon Hts., MI 49444. (616) 733-2422.

**KANE FISH AND GAME CLUB**, Kane, Pennsylvania. Contact: Dick Lockwood, Box 112, Kane, PA 16735. (814) 837-6216.

**KELBLY'S RIFLE RANGE**, Marshallville, Ohio. Contact: George Kelbly, 7222 Dalton Fox Lake Road, North Lawrence, OH 44666. (216) 683-4674. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

May 24-27 — Super Shoot (Sporter and Heavy Varmint)

July 23-26 — NBRSA Nationals, all four classes.

**MACKINAC STRAITS SHOOTERS**, St. Ignace, Michigan. Contact: Bud Hill, 11 South Boundary Road, St. Ignace, MI 49781.

**McKINLEY B.R. SHOOTERS**, Canton, Ohio. Contact: Harvey LaChat, 12085 Wooster Street, N.W., Massillon, OH 44646.

**REED'S RUN RIFLE CLUB**, Augusta, Ohio. Contact: Leora Demeter, 1907 Franklin Place, N.W., Canton, OH 44709. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

**SHELBY COUNTY DEER HUNTERS ASSOCIATION**, Contact: Robert Massie, 372 N. 2nd Street, Tipp City, OH 45371 (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

**SHELBY COUNTY SPORTSMAN'S ASSOCIATION**, Contact: Phil Jones, 414 Summit Avenue, Troy, OH 45373.

## GULF COAST REGION

**AUSTIN RIFLE CLUB**, Austin, Texas. Contact: Mary Solanik, Box 14665, Austin, TX 78761.

**CENTRAL TEXAS BENCH REST SHOOTERS, INC.**, New Braunfels, Texas. Contact: Speedy Gonzalez, 206 W. College, Comanche, TX 76442. (915) 356-5100.

**DIETZ RIFLE RANGE**, New Braunfels, Texas. Contact: Howard Dietz, Star Rt. 1, Box 65, New Braunfels, TX 78130. (512) 885-4662.

**FORT STOCKTON RIFLE CLUB**, Ft. Stockton, Texas. Contact: Larry Baggett, (915) 336-6278.

**HUB CITY RIFLE AND PISTOL CLUB**, Lafayette, Louisiana. Contact: Louis Langinels, 932 Hugh Wallis Road, Lafayette, LA 70501. (318) 235-8978. (NO WARM UP MATCHES WILL BE HELD ON REGISTERED MATCHES).

**MIDLAND SHOOTERS, INC.**, Midland, Texas. Contact: Jeff Fowler, P.O. Box 6421, Midland, TX 79701. (915) 563-4341.

**NAVARRO GUN CLUB**, Corsicana, Texas. Contact: Robert Hull, Box 488, Corsicana, TX 75110.

**SAN ANGELO GUN CLUB**, San Angelo, Texas. Contact: Buster Reed, 2409 Waco, San Angelo, TX 76901.

**SOUTHWEST LOUISIANA RIFLE AND PISTOL CLUB**, Lake Charles, Louisiana. Contact: James Neal, Jr., 1203 California, Lake Charles, LA 70605. (318) 477-6440.

## MID-CONTINENT REGION

**COLORADO BENCHREST SHOOTERS, INC.**, Morrison, Colorado. Contact: Dan Dowling, 10919 W. 59th Place, Arvada, CO 80004. (303) 422-6864.

**KANSAS CITY MILL CREEK RIFLE CLUB**, Desota, Kansas. Contact: Larry Kuze, 8112 W. 89th Street, Overland Park, KS 66212. (913) 649-7344. (NO WARM UPS; 3 MINUTE RULE).

**OKIE SHOOTERS**, Edmond, Oklahoma. Contact: Dennis Wagner, 6821 N. W. 28th Street, Bethany, OK 73008. (405) 495-2868.

**SANDHILL RIFLE AND PISTOL CLUB**, Great Bend, Kansas. Contact: Steve Ochs, 3023 17th, Great Bend, KS 67530. (316) 792-2245.

**SPRINGFIELD RIFLE CLUB**, Springfield, Missouri. Contact: Mike Bishop, 409 South Avenue, Springfield, MO 65806. (417) 555-5700.

**TULSA BENCHREST CLUB**, Skiatook, Oklahoma. Contact: Wayne Blacketter, 7811 E. 2nd Street, Tulsa, OK 74112. (918) 835-5195.

**WELD COUNTY FISH AND WILDLIFE ASSOCIATION, INC.**, Greeley, Colorado. Contact: John Ambler, 2025 Cheshire Street, Ft. Collins, CO 80526. (303) 226-5217.

NO WARM-UP MATCHES WILL BE FIRED. THREE MINUTES WILL BE ALLOWED PRIOR TO THE FIRST RECORD MATCH AT EACH YARDAGE TO GET ON TARGET.

May 6 — Hunter (TCL), 8:00 a.m.

May 19 — Mid-Continent Regional Light Varmint Championship, 9:00 a.m.

May 20 — Colorado State Sporter Championship, 8:00 a.m.

June 10 — Hunter (TCL), 8:00 a.m.

June 18 — Heavy Varmint, 9:00 a.m.

June 17 — Colorado State Light Varmint Championship, 8:00 a.m.

July 8 — Mid-Continent Regional Hunter Championship (TCL), 8:00 a.m.

July 14 — Unlimited (10-shot), 9:00 a.m.

July 15 — Colorado State Heavy Varmint Championship, 8:00 a.m.

August 5 — Colorado State Hunter Championship (TCL), 8:00 a.m.

September 15 — Heavy Varmint, 9:00 a.m.

September 16 — Colorado State Unlimited Championship (10-shot), 8:00 a.m.

## MISSISSIPPI VALLEY REGION

**B & R GUN CLUB**, Westfield, Indiana. Contact: Bill Gwin, 2302 State Road 38 East, Westfield, IN 46074. (317) 877-3108.

**BEESON'S RIFLE RANGE**, Etna Green, Indiana. Contact: James Beeson, R.R. 1, Etna Green, IN 46524. (219) 353-7964.

**BENCHREST RIFLE CLUB OF ST. LOUIS**, St. Louis Missouri. Contact: Art Freund, 1038 Hornsby Avenue, St. Louis, MO 63147. (314) 388-1352. (NO WARM UP MATCHES).

**EGYPTIAN RIFLE AND PISTOL CLUB**, Carbondale, Illinois. Contact: Marvin Voss, RR 1, Dedar Lane 15, Carbondale, Illinois 62901.

## NORTH CENTRAL REGION

**ATCHINSON RIFLE CLUB**, Cooperstown, North Dakota. Contact: Richard Reiten, P.O. Box 589, Cooperstown, ND 58425. (701) 797-2668.

**CEDAR RAPIDS BENCHREST CLUB**, Cedar Rapids, Iowa. Contact: Ed Kvarda, 2406 Ellis Boulevard, N.W. Cedar Rapids, IA 52405. (319) 396-0017.

**COUNCIL BLUFF RIFLE AND PISTOL CLUB**, Council Bluffs, Iowa. Contact: Robert Dodd, 8449 Geller Avenue, Ralston, NE 68127. (402) 331-9529.

**DAKOTA BENCHREST SHOOTERS CLUB**, Sioux Falls, South Dakota. Contact: Jack Backer, 1817 S. Lyndale, Sioux Falls, SD 57105. (605) 338-4418.

**MINNETONKA GAME AND FISH CLUB**, St. Francis, Minnesota. Contact: Don Judd, 645 20th Avenue, N.W., New Brighton, MN 55112. (612) 633-6799.

**PRAIRIE DOG TARGET CLUB**, Porcupine, South Dakota. Contact: Don Deckert, R.R., Porcupine, SD 57772. (605) 288-1919. (Saturday matches begin at 9:00 a.m., Sunday matches at 8:00 a.m.).

June 2 — Heavy Varmint

June 3 — Light Varmint State

June 30 — Heavy Varmint State

July 1 — Sporter Regionals

July 2 — Hunter State, 100 & 200 yards

August 11 — Heavy Varmint, 100 & 200 yards. This is a 100, 200, & 300 yard egg. Regional

August 12 — Heavy Varmint, 300 & 200 yards

September 1 — Light Varmint Regionals

September 2 — Heavy Varmint Regionals

September 3 — Hunter Regionals, 100 & 200 yards

**RIVER CITY RIFLE AND PISTOL CLUB**, Mason City, Iowa. Contact: Gary Venz, 2318 28th S.W., Mason City, IA 50401. (515) 423-5254.

**WILTON RIFLE CLUB**, Muscatine, Iowa. Contact: Dennis Shepard, 12 Debble Avenue, Muscatine, IA 52761. (319) 254-3500.

## NORTHWESTERN REGION

**ENTIA BENCH REST CLUB**, #2 Canyon, Wenatchee, Washington. Contact: Bob Miller, Box 395, Entiat, WA 98822.

**PUDGET SOUND BENCHREST RIFLE CLUB**, Issaquah, Washington. Contact: Bill Crosby, P.O. Box 125, Edmonds, WA 98020. (206) 347-4783.

**SNOW SHOE GUN CLUB**, Kenai, Alaska. Contact: Don Feltman, P.O. Box 429, Kenai, Alaska 99611. (907) 263-7373.

**TRI-COUNTY GUN CLUB**, Sherwood, Oregon. Contact: Bob Scheible, 23790 S. Beatie Road, Oregon City, Oregon 97045. (503) 632-4673.

**WESTERN MONTANA FISH AND GAME ASSOCIATION**, Missoula, Montana. Contact: Bill Cote, 3314 Paxson, Missoula, Montana 59801. (406) 549-4719.

## SOUTHEASTERN REGION

Dec. 1 — Southeast Region Annual Meeting, 1:00 p.m. at Greenville, S.C.

**SOUTHEAST REGION POLICY: NO WARM UP MATCHES: 3 MINUTE SIGHT IN PERIOD AT ALL MATCHES!** All will be "on paper" before the first record match is started.

**ALLEGHANY COUNTY RIFLE ASSOCIATION**, Sparta, North Carolina. Contact: Charles Joines, Box 306, Sparta, NC 28675. (919) 372-4847.

June 30 — Alleghany County Light Varmint & Heavy Varmint Invitational, 100 yards

**BUCCANEER GUN CLUB**, Wilmington, North Carolina. Contact: Don Sloop, 3306 Bragg Drive, Wilmington, NC 28403. (919) 799-4627.

Mar. 24 — North Carolina State Light Varmint & Heavy Varmint Championship, 100 yards

Mar. 25 — North Carolina Unlimited (10-shot) Championship, 100 yards

Oct. 6 — Shrimp Fest Invitational, Light Varmint & Heavy Varmint, 100 yards

Oct. 7 — Shrimp Fest Invitational, Unlimited (10-shot), 100 yards

**CHARLOTTE RIFLE & PISTOL CLUB**, P.O. Box 11163, Charlotte, NC 28209.

**FAYETTE COUNTY GUN CLUB, INC.**, P.O. Box 212, Fayette, Alabama. Contact: Charles Lahey, 131 14th Court, N.W., Fayette, AL 35555. (205) 932-3684.

Mar. 10 — Camella Invitational, Light Varmint & Heavy Varmint, 200 yards

Mar. 11 — Camella Invitational, Light Varmint & Heavy Varmint, 100 yards

Aug. 18 — Fayette County Invitational, Heavy Varmint & Unlimited, 100 yards

Aug. 19 — Fayette County Invitational, Light Varmint & Sporter, 100 yards

Nov. 10 — Alabama State Championship, Light Varmint & Heavy Varmint, 200 yards

Nov. 11 — Alabama State Championship, Light Varmint & Heavy Varmint, 100 yards

**GALLATIN GUN CLUB**, Gallatin, Tennessee. Contact: Frank Allison, 3359 Earhart Road, Mt. Juliet, TN 37122. (615) 883-0163.

**GREENVILLE GUN CLUB, INC.**, P.O. Box 123, Greenville, South Carolina. Contact: Ed Watson, 2404 Wade Hampton Boulevard, Greenville, SC 29615. (803) 244-7948.

Apr. 14 — Palmetto State Invitational, Heavy Varmint & Unlimited (10-shot), 100 yards

Apr. 15 — Palmetto State Invitational, Light Varmint & Sporter, 100 yards

Sept. 15 — South Carolina State Championship, Heavy Varmint & Unlimited (10-shot), 100 yards

Sept. 16 — South Carolina State Championship, Light Varmint & Sporter, 100 yards

**ISAAK WALTON BENCHREST CLUB**, Midlothian, Virginia. Contact: Dennis Glazener, 300 Manakin Road, Route 5, Midlothian, VA 23113.

**JACKSON COUNTY SHOOTING CLUB**, P.O. Box 1936, Sylva, North Carolina. Contact: James Messer, Box 2, Webster, NC 28788. (704) 586-5921.

**KETTLEFOOT ROD AND GUN CLUB**, P.O. Box 89, Bristol, Tennessee. Contact: Claude Smith, 2325 Westfield, Bristol, VA 24201. (703) 669-6594.

**LONG CREEK RIFLE AND PISTOL CLUB**, Charlotte, North Carolina. Contact: Larry Earp, 1029 Byrum Street, Charlotte, NC 28216. (704) 399-1793.

May 12 — Southeast Region Championship, Light Varmint & Sporter, 200 yards.

May 13 — Southeast Region Championship, Light Varmint & Sporter, 100 yards

Oct. 27 — Southeast Region Championship, Heavy Varmint & Unlimited, 200 yards

Oct. 28 — Southeast Region Championship, Heavy Varmint & Unlimited, 100 yards.

**MEMPHIS RIFLE AND REVOLVER ASSOCIATION, INC.**, Memphis, Tennessee. Contact: George Busby, 3387 St. Elmo, Memphis, TN 38128. (901) 372-1728.

**MID-CAROLINA RIFLE CLUB**, P.O. Box 814, Columbia, South Carolina. Contact: Jerry Shelton, 217 Cedar Vale Drive, Lexington, SC 29072. (803) 356-3047.

Apr. 28 — E. G. Bumgardner Spring Shoot, Light Varmint & Sporter, 100 yards

Apr. 29 — E. G. Bumgardner Spring Shoot, Heavy Varmint & Unlimited, 100 yards

## Porcupine

The Prairie Dog Target Club hosted the South Dakota heavy varmint state championships on September 3 and 4; 32 shooters showed up for it, and an accompanying light varmint match. It was the last match of the year at Porcupine, and Heaven, which mistakenly believed the match was to be the following weekend, allowed them (accidentally) rather nice weather for this one.

In the heavy varmint class, at 100 yards, Jack Backer turned it on, and left quite a gap back to the rest of the pack: (1) Jack Backer, .2174; (2) Dan Dowling, .2528; (3) Tim Gassman, .2534; (4) Ole Pond, .2668; (5) George Sedlacek, .2712. Small group was Don Dowling's .104. At 200 yards: (1) Duane Kudlock, .2655; (2) John Ambler, .2815; (3) Bill Pond, .2842; (4) Keith Hakeman, .2846; (5) Jack Backer, .2891. Small group again to Dan Dowling, for his range record .251. Grand agg: (1) Jack Backer, .2533; (2) Bill Pond, .2788; (3) Keith Hakeman, .2854; (4) John Ambler, .2858; (5) Dan Dowling, .3083. Jack Backer of Sioux Falls, South Dakota fired a 6PPC, in a sleeved 600 action, McMillan barrel, Lyman-Siebert 30X scope, 27.8 grains of H322 with his own 65 grain bullets, in a rifle smithed and stocked by himself.

In the light varmint class, a bit of a persistent tail-wind came up, and the size of the aggs went up. At 100 yards (1) R. C. Sumner, .2710; (2) Mike Margeson, .2740; (3) Dan Dowling, .3132; (4) Erv Reigles, .3160; (5) Bill Pond, .3420. Small group again was Dan Dowling, .117. At 200 yards, the scene changes completely; nobody in top five at 100 made top five at 200 . . . must have been a complete conditions change! 200 yards: (1) Donley Darnell, .5068; (2) Mel Klasi, .5163; (3) Vicki Roane, .5716; (4) Dick Howard, .5831; (5) Larry Mosenbar, .5900. Somebody other than Dan Dowling finally got the small group award, Dean Parker for his .408. Grand agg: (1) R. C. Sumner, .4324; (2) Mike Margeson, .4628; (3) Dick Howard, .4669; (4) Larry Mosenbar, .4900; (5) Duane Kudlock, .4935. Grand agg winner, R. C. Sumner of Denver, Colorado fired a .22 Walldog, Hart action, Hart barrel, Leupold 36X scope, a load of 26.8 grains of 748, behind his own 52 grain bullets, in a rifle smithed and stocked by Dan Dowling.

After that was over, they found 11 shooters for their hunter class match. At 100 yards: (1) Larry Mosebar 248-9X; (2) Don Deckert 243-8X; (3) H. Hutson 241-8X. At 200 yards: (1) Bill Pond 221-7X; (2) Don Deckert 217-5X; (3) H. Hutson 215-8X. Grand agg: (1) Larry

Mosebar 463-14X; (2) Don Deckert 460-13X; (3) H. Hutson 456-16X. Larry Mosebar fired a 6MM Scabb (?), Remington action, MATCO barrel, Weaver 6X scope, 34.0 grains of 4895 behind PCBC 65 grain bullets, in a rifle smithed by Jack Backer, and stocked by himself.

## Sioux Falls

September 10 and 11, the Dakota Benchrest Shooters had an unlimited (10-shot) match . . . rain, chilly, and windy, and for those who did not pick up galloping pneumonia the first day, a sporter class match the second day. The editor can think of nothing that he would rather do than fire ten-shot groups in such conditions, and I'm truly sorry that my having to paint the mailbox kept me home that weekend.

In ten-shot unlimited, 100 yards: (1) Don Deckert, .3558; (2) Mike Margeson, .3708; (3) Tim Gassman, .3776. Small group was Ed Reiten's .185. At 200 yards: (1) Jack Backer, .6160; (2) Ed Reiten, .6854; (3) Don Deckert, .7020. Small group was Bob Dodd's .675. Grand agg: (1) Don Deckert, .5289; (2) Jack Backer, .5298; (3) Tim Gassman, .5624. For the record, this was Don Deckert's first grand agg win ever; he was met by the mayor and the local reform school band on his triumphal return to Porcupine, and the place will never be the same again . . . small town boy makes good in big city!! Don Deckert fired a 6PPC, with a Hart cruiser-weight barrel, Wichita action, Leupold 24X scope, a load of 28.0 grains of H322, Berger 68 grain bullets, in a rifle smithed by Dan Dowling and stocked by Fred Sinclair.

In the sporter class, this range has a long unenviable history of having rotten conditions every time a sporter class match was to be held . . . and the tradition was to hold true yet again. One fellow, at 100 yards, had a handle on things, and that was the end of the heroics. At 100 yards: (1) Frank Brabec III, .2790; (2) Ed Reiten, .3652; (3) Tim Gassman, .3844. Small group was Frank Brabec's, .128. At 200 yards: (1) Ron Wyman, .4309; (2) Bob Dodd, .5099; (3) Frank Brabec, .5219. Small group went to Ron Wyman, .472. Grand agg: (1) Frank Brabec, III, .4005; (2) Ron Wyman, .4512; (3) Ed Reiten, .4660. Frank Brabec, III of St. Paul, Minnesota fired a 6PPC, 40X action, Hart barrel, Leupold 36X scope, 27.5 grains of H322 behind Euber 68 grain bullets, in a rifle smithed and stocked by Seely Masker . . . who lives just down the road from Sioux Falls. To show you how rough this range has been on sporter class shoots historically, Frank Brabec's .4005 grand agg is a new range record!

There was a \$100 prize for the winner of the two gun, plus a \$25 bonus if the winner used a sandbag gun. Mr. Deckert left Sioux Falls \$125 ahead of the game, which ain't bad for a country boy from Porcupine, South Dakota. Two gun rankings: (1) Don Deckert, .5180; (2) Tim Gassman, .5371; (3) Ed Reiten, .5378; and (4) Bob Dodd, .5589.

## MATCH SCHEDULE *Continued*

June 16 — E. G. Bumgardner Invitational, Light Varmint & Sporter, 100 yards

June 17 — E. G. Bumgardner Invitational, Heavy Varmint and Unlimited, 100 yards.

**PALMETTO GUN CLUB**, Charleston, South Carolina. Contact: Bruce Hillman, 6220 Murray Avenue, N (Apt 6A), Hanahan, SC 29406.

**RIVER BEND GUN CLUB**, P.O. Box 292, Norcross, Georgia. Contact: Joe Carlisle, 31 Swinnett Drive, Apt. C-5, Lawrenceville, GA 30245. (404) 962-4667.

**ROANOKE RIFLE AND REVOLVER CLUB**, P.O. Box 8252, Roanoke, Virginia. Contact: Ted Manning, R.D. 4, Box 4168, Salem, VA 24153. (703) 362-8046.

**TWIN CITY RIFLE AND PISTOL CLUB**, Roanoke Rapids, North Carolina. Contact: John Reber, 2306 Old Farm Road, Roanoke Rapids, NC 27870.

**VOLUNTEER RIFLE AND PISTOL CLUB**, Knoxville, Tennessee. Contact: Nick Young, 10816 Kingston Pike, Knoxville, TN 37922. (615) 966-7680.

**WATAUGA GUN CLUB**, Boone, North Carolina. Contact: James Coffey, Rt. 4, Box 400, Boone, NC 28607. (704) 264-8184.

July 14 — Southeast Region Championship, Sporter & Unlimited, 300 yards.

July 15 — Southeast Region Championship, Sporter & Unlimited, 200 yards.

Sept. 1 — Southeast Regional Championship, Light Varmint & Heavy Varmint, 300 yards.

Sept. 2 — Southeast Regional Championship, Light Varmint & Heavy Varmint, 200 yards.

Sept. 3 — Southeast Regional Championship, Light Varmint & Heavy Varmint, 100 yards.

**WYOMING ANTELOPE CLUB**, Pinellas Park, Florida. Contact: John Jessip, 10900 Roosevelt Boulevard N., St. Petersburg, FL 33702. (813) 576-6675 (anytime).

Feb. 11, 1984 — Southeast Regional Opener, Heavy Varmint & Unlimited, 10 shot, 100 yards

Feb. 12, 1984 — Southeast Regional Opener, Light Varmint, Sporter, 100 yards

Nov. 24 — Florida State Championship, Heavy Varmint & Unlimited (10-shot), 100 yards.

Nov. 25 — Florida State Championship, Light Varmint & Sporter, 100 yards.

## SOUTHWESTERN REGION

**ARIZONA BENCHREST SHOOTER**, Phoenix, Arizona. Contact: Nancy Miller, 7221 W. Angela, Peoria, Arizona 85345. (602) 979-5764.

Mar. 3 — Cactus Shoot, Money Shoot, Light Varmint, 100 & 200 yards

Mar. 4 — Cactus Shoot, Money Shoot, Heavy Varmint, 100 & 200 yards

Apr. 28 — Arizona State Light Varmint Championships, 100 & 200 yards

Apr. 29 — Arizona State Heavy Varmint Championships, 100 & 200 yards

Dec. 8 — Heavy Varmint, 100 & 200 yards

Dec. 9 — Unlimited (10-shot), 100 & 200 yards

**CALIFORNIA BENCH REST SHOOTERS ASSOCIATION**, Visalia, California. Contact: Dennis Thornbury, 1114 S. McAuliff Road, Visalia, CA 93277. (209) 732-4401.

Mar. 17 — Light Varmint, 100 & 200 yards

Mar. 18 — Heavy Varmint, 100 & 200 yards

**CARSON RIFLE AND PISTOL CLUB**, Carson City, Nevada. Contact: Dick Cundiff, 2549 Sneddon Way, Carson City, Nevada 89701. (702) 882-9115.

**DESERT SPORTSMAN'S RIFLE AND PISTOL CLUB**, Las Vegas, Nevada. Contact: Robert B. Roberts, 2300 El Cerrito Circle, Las Vegas, Nevada 89108. (702) 648-1959.

**SOUTHERN UTAH BENCHREST ASSOCIATION**, St. George, Utah. Contact: Rick Adams, 24 E. 750 South Street, St. George, Utah 84770.

Sept. 29 — Utah State Heavy Varmint Championships, 100 & 200 yards.

Sept. 30 — Utah State Unlimited Championships (10-shot), 100 & 200 yards. Also, Heavy Varmint, 100 & 200 yards.

Nov. 17 — Utah State Sporter Championships, 100 & 200 yards.

Nov. 18 — Utah State Light Varmint Championships, 100 & 200 yards.

## Boone

The Southeast region had their regionals at 100-200-300 yards for sporter and light varmint classes at the Watauga Gun Club in Boone, North Carolina on September 3-5. There was an excellent turnout of 47 shooters, but when it was all over, a lot of trouble could have been saved if they had merely mailed the two big trophies to Keezletown, Virginia, and told the two Boyers to stay home and water the garden.

In the sporter class, at 100 yards: (1) Duncan Daugherty, .2216; (2) Tony Boyer, .2252; (3) Harry Smith, .2272; (4) James Messer, .2460; (5) Ted Manning, .2470; (6) David Tooley, .2474. Small group, Charles Joines, .112. At 200 yards: (1) Ed Watson, .2543; (2) Charles Joines, .2551; (3) Tony Boyer, .2661; (4) John Brown, .2883; (5) Mike Lucas, .2921; (6) Faye Boyer, .3018. Small group, Douglas Hubbard, .257. At 300 yards: (1) Tony Boyer, .2332; (2) Charles Joines, .2641; (3) Mike Lucas, .2707; (4) Harry Smith, .2860; (5) M. C. McNair, .2898; (6) Larry Earp, .2952. Small group, Mike Lucas, .463. It's grand agg time, and Tony Boyer has finished second, third, and first in the three yardages . . . he should make the top 20 . . . right? Grand agg: (1) Tony Boyer, .2415; (2) Charles Joines, .2651; (3) Ed Watson, .2809; (4) Mike Lucas, .2869; (5) Ed Pennebaker, .2924; (6) M. C. McNair, .3016. Tony Boyer of Keezletown, Virginia (see previous IBS match reports which have discussed Keezletown in proper depth) fired a 6PPC, Hall action, Hart barrel, Leupold 36X scope, a load of 30.5 grains of N201, 68 grain Euber bullets, smithed by Myles Hollister, and stocked by Tom Kelley.

From looking at those aggs, (a) conditions had to be pretty decent, and (b) the records were probably about to take a pounding . . . they did. Tony Boyer set three records (300 yard agg, 200-300 agg, and 100-200-300 agg). Charles Joines had two records (200-300 agg, 100-200-300 agg), Ed Watson had one (100-200-300 agg), and Mike Lucas also had one (100-200-300 agg). Conditions were good, darn good, but they never did have a real calm, as witness the winning small groups . . . good, but not great. It was the aggs that were outstanding.

The light varmint class brought out the same 47 shooters, firing the same 47 rifles. (New rule change rumored to be imminent . . . you cannot fire the same rifle in both classes . . . only exception . . . if you RE-PAINT the stock between classes . . . so that it LOOKS different

. . . ). Light varmint, 100 yards: (1) Faye Boyer, .2476; (2) Tony Boyer, .2518; (3) Ed Pennebaker, .2626; (4) M. C. McNair, .2732; (5) David Tooley, .2734; (6) T. C. Vanlandingham, .2748. Small group, J. D. Stamper, .090. At 200 yards: (1) Jack Canupp, .2795; (2) James Coffey, .3090; (3) Larry Earp, .3117; (4) J. D. Stamper, .3184; (5) M. C. McNair, .3199; (6) Nick Young, .3209. Small group, M. C. McNair, .278. At 300 yards: (1) Tony Boyer, .2856; (2) John Brown, .3239; (3) Ed Watson, .3273; (4) Jeff Summers, .3435; (5) Doug Gazaway, .3695; (6) James Coffey, .3696. Small group, Tony Boyer, .476. If you were watching the yardages, Tony Boyer was second at 100 yards, and first at 300 yards . . . should be a good bet, right? well . . . at 200 yards, his groups were: .892, .448, .364, .3.493 .394 . . . you might have notice a rather large group in that little assembly! Grand agg: (1) Faye Boyer, .3204; (2) M.C. McNair, .3259; (3) Kenny Jarrett, .3422; (4) James Coffey, .3423; (5) Larry Earp, .3489; (6) Nick Young, .3537. Faye Boyer of Keezletown, Virginia fired a 6PPC, in a sleeved XP-100 action, Hart barrel, Leupold 36X scope, a load of 28.3 grains of H322, Euber 68 grain bullets, in a rifle smithed by Myles Hollister, and stocked by McMillan.

It's time for the two-gun award, and incredibly, Tony Boyer was able to overcome that one bad group (bad . . . heck, it was downright rotten!) and they gave the big one to the Pride of Keezletown. Top five: (1) Tony Boyer, .3035; (2) M. C. McNair, .3138; (3) Ed Watson, .3221; (4) Faye Boyer, .3247; (5) Charles Joines, .3262.

## Greeley

The Northern Colorado Benchrest Shooters hosted the Colorado State Light Varmint Championships, plus a heavy varmint match on September 17 and 18 at the Weld County range, and 36 demented souls found decent shooting conditions, which none of them knew how to handle . . . they almost had to cancel the match . . . nobody knew how to shoot in reasonable weather. Eventually they all bravely voted to "try it . . . at least".

In the heavy varmint class, 100 yards: (1) Dick Howard, .2258; (2) Dan Dowling, .2600; (3) Bill Pond, .2614; (4) Bob Wirthlin, .2676; (5) Jim Woodside, .2734; (6) Bob Kokott, .2734. Small group, Dan Dowling's .139. At 200 yards: (1) Bill Wilkinson, .3272; (2) Dan Dowling, .3665; (3) Don Deckert, .3827; (4) Bill Pond, .3837; (5) Frank Bochy, .4051; (6) Ron

Best, .4102. Small group, Bill Wilkinson .308. Grand agg: (1) Dan Dowling, .3133; (2) Bill Pond, .3226; (3) Dick Howard, .3320; (4) Bill Wilkinson, .3359; (5) Don Deckert, .3414; (6) Bob Wirthlin, .3529. Grand agg winner, Dan Dowling of Arvada, Colorado fired a .22 Walldog, Meyer action, Shilen barrel, Lyman-Siebert 30X scope, 24.5 grains of H322, Snow 52 grain bullets, smithed and stocked by the shooter.

In the light varmint class, since it was the state championships, everyone stopped clowning around and shot for serious. At 100 yards: (1) Dan Dowling, .2568; (2) Bob Wirthlin, .2592; (3) R. C. Sumner, .2726; (4) Don Deckert, .2906; (5) Bill Pond, .2944. Small group was Bill Pond's .112. At 200 yards: (1) Dan Dowling, .3382; (2) Bill Pond, .3732; (3) Dick Howard, .3789; (4) Ray Bacon, .3802; (5) Bill Lofink, .3874. Small group was Dan Dowling's .296. In the grand agg, Dan Dowling made it a clean sweep: (1) Dan Dowling, .2975; (2) Bill Pond, .3338; (3) Ray Bacon, .3653; (4) Don Deckert, .3689; (5) Bob Wirthlin, .3720. The good Mr. Dowling shot the same rifle as in the heavier class, except for a change to an Atkinson barrel.

## Muscatine

The Wilton Rifle Club held a light varmint and heavy varmint match on September 25; there were four shooters in attendance, and without Jon Leu being on the premises, the match had to be regarded as "wide open — anybody can win it".

In the light varmint class, in the morning, it was raining, and the rankings (what the heck; let's list them all) were: (1) Kenny Aldridge, .3794; (2) John Moschkau, .4608; (3) Warren Edwards, .6280; and (4) Carl Williams, .6696. Small group, Kenny Aldridge .243. Agg winner, Kenny Aldridge fired a 6BR, Remington action, Hart barrel, Weaver 25X scope, 30.0 grains of H4895, 65 grain Earp bullets, and the rifle was smithed by Fred Sinclair.

In the heavy varmint class, John Moschkau suddenly figured out the conditions, apparently . . . (1) John Moschkau, .2614; (2) Kenny Aldridge, .3730; (3) Warren Edwards, .7596; and (4) Carl Williams, .8428. Small group was shot by John Moschkau, with a .126 . . . using a 6PPC, Hall action, McMillan barrel, Leupold 36X scope, an unspecified load of H4895, JB bullets, in another rifle smithed and stocked by Fred Sinclair.

## Visalia

The California Bench Rest Shooters Association held the California State Championships for all three varmint classes on the Visalia range on September 3-4- and 5, good weather conditions prevailed, and there was a good sized number of contestants to brawl over the trophies and the prizes. Nobody ran off and hid from his fellow shooters in the grand aggs; all were hotly contested.

Sporter class (38 shooters); 100 yards: (1) Gene Harless, .2266; (2) Donalee Price, .2476; (3) Dennis Thornbury, .2496; (4) Fred Sattler, .2496; (5) Bill Mellor, .2612; (6) Bill Ramsey .2522. Small group was Irene Fazio's .105. At 200 yards: (1) Fred Sattler, .2789; (2) Mel Iwatsubo, .2858; (3) Walt Berger, .2969; (4) Spencer Zootis, .2985; (5) Bill Ramsey, .2987; (6) Don Hase, .2988. Small group, Mel Iwatsubo, .255. Grand agg: (1) Fred Sattler, .2643; (2) Bill Ramsey, .2755; (3) Mel Iwatsubo, .2782; (4) Dennis Thornbury, .2888; (5) Donalee Price, .2893; (6) Irene Fazio, .2907. Fred Sattler of Fresno, California fired a 6PPC, Shilen action, Hart barrel, Leupold 36X scope, 27.0 grains of H322, Berger 68 grain bullets, in a rifle smithed and stocked by himself.

Light varmint (44 shooters), and at 100 yards, Chuck Miller of Phoenix, Arizona did some pretty fair shooting for a country boy: (1) Chuck Miller, .2098; (2) Glenn Price, .2418; (3) Bill Fazio, .2426; (4) Dennis Wagner, .2626; (5) Lee Large, .2632; (6) Spencer Zootis, .2656. Small group was Donalee Price's rather tidy .100 (why couldn't they have given her a .099, and saved a lot of tears and hysteria?). At 200 yards: (1) Spencer Zootis, .2765; (2) Bill Ramsey, .2916; (3) Stu Harvey, .2921; (4) Leonard Quesada, .3176; (5) Arlene Guthrie, .3224; (6) Bill Warner, .3295. Small group, Spencer Zootis, .271. In the grand agg, same as previous class, give it to the guy who won the 200 yard stage . . . . (1) Spencer Zootis, .2711; (2) Chuck Miller, .2716; (cut that one a bit close, you did, Mr. Zootis!); (3) Bill Fazio, .2910; (4) Lee Large, .2972; (5) Dennis Wagner, .3066; (6) Fred Sattler, .3080. Spencer Zootis of Healdsburg, California fired a 6PPC, Hall action, Hart barrel, Leupold-Siebert 30X scope, 28.0 grains of H322, Berger 68 grain bullets, the rifle smithed by Mel Iwatsubo, and stocked by Lee Six.

In heavy varmint class, 49 names were stuffed into the entry box, and at 100 yards, the leaders were "tightly bunched as they entered the clubhouse turn" . . . (sorry, thought I was at a horserace for

a moment there): (1) Bill Mellor, .2358; (2) Glenn Price, .2454; (3) Jim Carlson, .2456; (4) Jerry Thornburgh, .2522; (5) Stu Harvey, .2576; (5) Bill Ramsey, .2602. In the small group category, Dave Saito fired a .070, and nobody came close to that little cuss. At 200 yards, Leonard Quesada became a bit un-social and decided that he didn't want anyone near him: (1) Leonard Quesada, .2489; (2) Dennis Wagner, .2803; (3) Dennis Thornbury, .2895; (4) Chuck Miller, .2978; (5) Lee Large, .2988; (6) Irene Fazio, .3045. Small group went to Spencer Zootis for his .281. Notice, if you will, that nobody made top six in both classes . . . . makes it hard to pick the winner, huh? Grand agg: (1) Dennis Thornbury, .2840; (2) Stu Harvey, .2867; (3) Chuck Miller, .2909; (4) Dennis Wagner, .2910; (5) Walt Berger, .2935; (6) Glenn Price, .2962. Grand agg winner, Dennis Thornbury, shot a 6PPC, Hall B action, Hart barrel, Lyman-Siebert 36X scope, 27.8 grains of H322, 68 grain Berger bullets, the rifle was smithed by Stu Harvey and stocked by Lee Six.

The three gun was another tightly packed mob-scene (elbows in the face, pushing, shoving, people stepping on your feet, the fallen getting trampled underfoot . . . real bad scene). When the Visalia Police Department SWAT team finally got them separated, Chuck Miller was clutching the big trophy, and wouldn't let go, so they let him keep the darn thing (it was all dented after the brawl anyway). Three gun: (1) Chuck Miller, .2912; (2) Bill Ramsey, .2997; (3) Spencer Zootis, .3026; (4) Dennis Thornbury, .3061; (5) Donalee Price, .3116; (6) Bill Fazio, .3132; (7) Glenn Price, .3133 (well, Glenn, Bill Fazio whipped you badly in the three gun!); (8) Fred Sattler, .3183; (9) Dennis Wagner, .3227; and (10) Walt Berger, .3266.

## St. Louis

The St. Louis Benchrest Rifle Club had 26 shooters for their heavy varmint and light varmint class match on September 10 and 11. Conditions had to be pretty good, because the aggs were pretty good.

Light varmint class, 100 yards: (1) Warren Stephens, .2286; (2) Wm. Schellert, .2365; (3) Don Ball, .2516; (4) Billy Grimes, .2532. Small group, Warren Stephens, .112. At 200 yards: (1) Mike Bishop, .2510; (2) Larry Schultz, .2600; (3) Billy Grimes, .2837; (4) Jerry Baillie, .2913. Small group, Wayne Corley, .291. Grand agg: (1) Billy Grimes, .2684; (2) Larry Schultz, .2940; (3) Mike Bishop, .2984. Grand agg winner, Billy Grimes of Paducah, Kentucky fired a 6PPC, Hall action, Atkinson barrel, Leupold 24X scope, 25.5 grains of 4198, his own 62.5 grain bullets, in a rig smithed by Taylor and stocked by Collier.

Heavy varmint class, 100 yards: (1) Larry Schultz, .2504; (2) Carl Taylor, .2552; (3) Larry Scharnhorst, .2562; (4) Billy Grimes, .2708; (5) Jerry Baillie, .2718. Small group, Larry Schultz, .102. At 200 yards (1) Jerry Baillie, .2760; (2) Robert Fowler, .2880; (3) Vern Withers, .3091; (4) Wm. Schellert, .3110; (5) Charlie Scott, .3234. Small group, Lowell Hewlett, .328. Grand agg: (1) Jerry Baillie, .2739; (2) Robert Fowler, .2819; (3) Carl Taylor, .2944. Grand agg winner, Jerry Baillie of Springfield, Missouri fired a .22PPC, in a Hall B action, Hart barrel, Leupold 36X scope, an unspecified amount of BR 28 powder, Berger 52 grain bullets, in a rifle smithed and stocked by Fred Sinclair.

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## Council Bluff

September 24 and 25, the Iowa State Unlimited and Sporter State Championships, plus an accompanying heavy varmint class match. As far as the two state championship classes went, if it had been a horse race, Larry Scharnhorst would have won by twenty lengths!

Unlimited class (9 entries), 100 yards:

(1) Larry Scharnhorst, .3078; (2) Larry Kuse, .4088; (3) Wilbert Deaken, .4354. Small group, Larry Scharnhorst with a .251. At 200 yards: (1) Larry Scharnhorst, .4594; (2) Jack Backer, .4660; (3) Larry Kuse, .6239. Small group, Larry Scharnhorst .706. Grand agg: (1) Larry Scharnhorst, .3836; (2) Jack Backer, .4695; (3) Larry Kuse, .5163. Larry Scharnhorst of Springfield, Missouri fired a 6PPC, in a sleeved Remington 660 action, Hart barrel, Leupold-Siebert 45X scope, a load of 29.9 grains of 4895, Berger 68 grain bullets, in a rifle gunsmithed by Webb, and stocked by himself.

Sporter class (12 entries), 100 yards: (1) Bob Dodd, .3676; (2) Mel Estep, .3948; (3) Larry Scharnhorst, .4040. Small group, Marty Gordon's .158. At 200 yards: (1) Larry Scharnhorst, .3851, (now, let's go looking for the second place shooter); (2) Dave Darvis, .5895; (3) Mel Estep, .5925. Small group, Larry Scharnhorst's .517. Grand agg: (1) Larry Scharnhorst, .3961; (3) Bob Dodd, .4904; (3) Mel Estep, .4936. Larry Scharnhorst fired a 6PPC, Stolle action, McMillan barrel, Leupold 36X scope, 29.9 grains of 4895, Berger 68 grain bullets, in a rifle smithed by Webb, and stocked by Fred Sinclair.

Heavy varmint class (7 entries), 100 yards: (1) Gene Adkins, .2696; (2) Mike Margeson, .2702; (3) Jeff Backer, .4044. Small group, Gene Adkins, .189. At 200 yards: (1) Keith Hakeman, .4250; (2) Gene Adkins, .4452; (3) Bill Ellarbeck, .4539. Small group, Gene Adkins, .403. Grand agg: (1) Gene Adkins, .3575; (2) Mike Margeson, .3675; (3) Keith Hakeman, .4388. Gene Adkins of Belle, Missouri

fired a .223-30, in a Remington 40X action, Hart barrel, Leupold-Siebert 30X scope, a load of 26.5 grains of 748 powder, Freund bullets, in a rifle smithed by Freund and Smart, and stocked by Freund.

## Greeley

There were 22 entries in the heavy varmint match at the Weld County range on October 8, and 16 shooters the next day for the ten-shot unlimited class.

In the heavy varmint class, 100 yards: (1) R. C. Sumner, .2766; (2) Bob Kokott, .2802; (3) John Ambler, .3202; (4) Dan Dowling, .3302. Small group, Bob Kokott, .135. At 200 yards: (1) Dan Dowling, .2756; (2) R. C. Sumner, .2959; (3) Ken Sell, .3364; (4) Frank Bochy, .3526. Small group, Frank Bochy, .339. Grand agg: (1) R. C. Sumner, .2863; (2) Dan Dowling, .3029; (3) Bob Kokott, .3445; (4) Curtis Pickwick, .3508. R. C. Sumner of Denver, Colorado fired a .22 PPC, Hall B action, Shilen barrel, Lyman-Siebert 36X scope, 27.0 grains of H322, his own 52 grain bullets, in a rifle smithed and stocked by J. C. Malsby.

In the ten-shot unlimited class, at 100 yards: (1) Dan Dowling, .3156; (2) John Ambler, .3384; (3) Ron Best, .3634; (4) R. C. Sumner, .3848. Small group was Dan Dowling's .191. At 200 yards: (1) John Ambler, .3031; (2) Dan Dowling, .3460; (3) Don Deckert, .3520; (4) R. C. Sumner, .4200. Small group, Don Deckert, .361. Grand agg: (1) John Ambler, .3208; (2) Dan Dowling, .3308; (3) Don Deckert, .3797; (4) R. C. Sumner, .4024. John Ambler of Fort Collins, Colorado fired a 6PPC, Hall B action, unknown brand of barrel, Leupold 36X scope, 28.0 grains of H322 behind Berger 68 grain bullets, smithed and stocked by Dan Dowling. Ambler and Dowling both shot borrowed rifles. The barrel on the rifle that Ambler shot has changed hands twice since its original owner, and at this point in time, nobody knows who made the darn barrel anymore.

## Lake Charles

The Southwest Louisiana Rifle and Pistol Club held their first benchrest match, a heavy varmint affair, on September 18, and 20 shooters found good conditions in the morning, and in the afternoon, a storm system moved through, and good groups became a tad more difficult to put together. Apparently everyone was happy about the way that things went; the club plans more matches next season, which means that none of the principals were lynched after the awards ceremony . . . a good sign in itself.

At 100 yards, it was: (1) Jimmie Broussard, .2514; (2) Marcy Lyons, .2530; (3) Louis Langlinalis, .2928; (4) Ralph Council, .3064; (5) Jerry Lott, .3210. Small group was Jimmie Broussard's .140. At 200 yards, when things turned a bit rough: (1) Roland Rigdon, .3615; (2) Jimmie Broussard, .3769; (3) Charles Mills, .3859; (4) Mike Guillot, .3882; (5) Russell Fung, .3963. Small group, Charles Mills, .250. Grand agg: (1) Jimmie Broussard, .3142; (2) Marcy Lyons, .3442; (3) Louis Langlinalis, .3612; (4) Ralph Council, .3636; (5) Weldon Lavolette, .3766; (6) Charles Mills, .3788.

Grand agg winner, Jimmie Broussard of Baton Rouge, Texas (take that, Louis!), fired a 6PPC in a Hall B action, McMillan barrel, Leupold 36X scope, a load of 28.3 grains of H322 powder, 70 grain Yeatts bullets, smithed and stocked by Dale Hutcherson.

The top six guns in the match were all smithed by Dale Hutcherson of Pasadena, Texas, which is the sort of thing that one would expect from a P.S. columnist gunsmith. The editor is mildly disappointed that we did not cover the top ten, and is considering putting Mr. Hutcherson on probation until he does better. Now that I think about it though, I've just taken Mike Prokosch off probation, and there's enough tension in the world already. Try harder next time, Dale, huh?